

293

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<210> 420

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<400> 420

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gcccactgtg gactctgagg cctctgcatt tgcgggtggt ctgcctgtga tattttgggtc 420
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294

<210> 421
 <211> 951
 <212> DNA
 <213> Homo sapiens

<400> 421
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<210> 422
 <211> 673
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (76)
 <223> n equals a,t,g, or c

<400> 422
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 ggctctgaca gacctggac ccagggcctc acctgccact caaccaaaga gtcctcgagc 540
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295

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673

<210> 423

<211> 2073

<212> DNA

<213> Homo sapiens

<400> 423

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<210> 424

<211> 2609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

296

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2609)

<223> n equals a,t,g, or c

<400> 424

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gacgacatgg cattggggca tgtgattgtg ttgcttcagc aagagtggcc acggggcgag 1920
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297

```

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gaaggtggga aaattcatct ggaattacta cccaatcaag gaatgctgat caagcaccac 2100
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<210> 425

<211> 987

<212> DNA

<213> Homo sapiens

<400> 425

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agtgtatatt ctatgaaatg gaagaaacaa gaactagaca gagtcacaaa tgctgttgat 660
cacagacaat ctctgccatc cataaggtaa atgtaataca tctggcgacc tgctgagtgt 720
gaacttgcag cagggtgagga aggaactctg aactctcaca atcttgtttc ttcatttccc 780
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aatgcttacc tttaatcatg tgacattggt tatcttggtg taaaagaaaa gaaaatgtat 900
ttattttgtg catattttca ataaaatata taaaatcgag ttggtatata gtgccaaata 960
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<210> 426

<211> 1726

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

298

<400> 426

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gtccccccgc atgcatgggg atttctcccc agaccagcat acttgtgacc tgagagttca 180
atgygtaaag atgcccctgg tcagccatat ccatcttctc ttgectggtc cttgattctc 240
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gccatctgtc caggcagcta gacaagaact tgttcaccag cagccggatt caggccttcc 360
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aaatggtcca aggggaagtc aaaaaaaaa aaaaaaaaa aaaaaa 1726
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<210> 427

<211> 1528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 427

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cagggcagcc ggggaaggtc cagcagctgc acagcctgag aaactcctc aagctgcccc 480
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299

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ctcttcttaa aaaaaaaaaa aaaaaaaaaa 1528

```

<210> 428

<211> 2055

<212> DNA

<213> Homo sapiens

<400> 428

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300

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<210> 429

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 429

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gctgtccttg acattctgat gtggtgaaat ggtagcagc atggactttg gaaccagata 300
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<210> 430

<211> 2834

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2828)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2834)

301

<223> n equals a,t,g, or c

<400> 430

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gaagatagtt tacgaagaga aaagaacctg gaagaagcaa agaagattac cattaataat 420
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302

<210> 431
<211> 2709
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2677)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2691)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2699)
<223> n equals a,t,g, or c

<400> 431
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303

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<210> 432

<211> 739

<212> DNA

<213> Homo sapiens

<400> 432

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ggaggtcctg ggactccaag ttcagcgctc caggtctggg acagggcctg catgcagtca 660
ggctggcagt ggcgcggtac agggagggaa ctggtgcata ttttagcctc aggaataaag 720
atgtgtctgc tcaaaaaaa 739

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<210> 433

<211> 853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (734)

304

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (767)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (833)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (851)

<223> n equals a,t,g, or c

<400> 433

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gcaaccacct nat 853

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<210> 434

<211> 1098

<212> DNA

<213> Homo sapiens

<400> 434

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catctacttc gtatgactat tgcagagtgc ccatggaaga cggggataag cgctgtaagc 180
ttctgctggg gataggaatt ctggtgctcc tgatcatcgt gattctgggg gtgcccttga 240
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agtgtcgcaa tgtcacccat ctctgcaac aagagctgac cgaggcccag aagggtttc 360

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305

```

aggatgtgga ggcccaggcc gccacctgca accacactgt gatggcccta atggcttccc 420
tggatgcaga gaaggcccaa ggacaaaaga aagtggagga gcttgaggga gagatcacta 480
cattaaacca taagcttcag gacgcgtctg cagaggtgga gcgactgaga agagaaaacc 540
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```

<210> 435

<211> 1178

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (917)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1176)

<223> n equals a,t,g, or c

<400> 435

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gcaaaacccg cgcggtttct ctgggcgcga aagcggctgt ttccccacaa ggtgtccaac 1140
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306

<210> 436
<211> 686
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<400> 436
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<210> 437
<211> 2588
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<213> Homo sapiens

<220>
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<222> (2481)
<223> n equals a,t,g, or c

<220>
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<222> (2505)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (2544)
<223> n equals a,t,g, or c

<400> 437
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307

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<210> 438

<211> 3609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

308

<222> (32)

<223> n equals a,t,g, or c

<400> 438

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309

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<210> 439

<211> 2643

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2633)

<223> n equals a,t,g, or c

<400> 439

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310

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<210> 440

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<400> 440

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<210> 441

<211> 2595

311

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (64)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (82)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1222)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2398)
 <223> n equals a,t,g, or c

<400> 441
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 agggaccagt gggaggaccg gatccagggtg tggcatgctg aacaccgtgg gatgctcaaa 180
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312

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<210> 442

<211> 1301

<212> DNA

<213> Homo sapiens

<400> 442

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<210> 443

<211> 689

<212> DNA

<213> Homo sapiens

313

<220>
 <221> misc feature
 <222> (678)
 <223> n equals a,t,g, or c

<400> 443
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 cgtgaggaac gcctcttaac acgccccgtg gcatggagtt tgacagggcc ctggatccct 180
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 gcaagagagc tcagcttnaa cctcacaac 689

<210> 444
 <211> 395
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (380)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (384)
 <223> n equals a,t,g, or c

<400> 444
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 gggggacaag agtgagactt agtctcaaaa aaaaaaaaaa agaaaaaaaa atcaggggata 120
 tagttcatat cccacttctt tgtttacacc gatgtccctg aatatcagcc tgtagctaata 180
 ggacttgagg tttctggtct aagtgggcct cctgggggatg ggggtggtaca ctgagcttct 240
 gagcctcatt gtagagtaga aaggtactgg ggcctgtgtg gtaagccttg ttgaaatgct 300
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 aaaaaaaaaa aaaaaaaaaa ccnngggggg ggccc 395

<210> 445
 <211> 1558
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

314

<222> (420)

<223> n equals a,t,g, or c

<400> 445

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cctggatgac atctttaaact taaagctggg tcatatcttg aacatgggtca cgggcacccat 180
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```

<210> 446

<211> 3085

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3077)

<223> n equals a,t,g, or c

<400> 446

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tacaaagctg aatgtcattt ctggtttgta gctttctgtc actcattcca tcttccttca 180
gacatcacca cgtttctcta aagtcagaaa acattccgtt ttgggtcttt tcaaaaagggt 240

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315

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cccaaatgct gcactctaca catgaaggcc ctctcacaca gacgtgacgt cctgccagaa 300
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ccacgcagca gtattggggg tgggtcgggg gaggggtgtt tcggattttc ttttttlytt 420
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<210> 447

<211> 1917

316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1915)

<223> n equals a,t,g, or c

<400> 447

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ccgtacagcc cagtccacga agggcgccac gggcctgac gtcacctatg cccgacggcg 180
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ccaccagctg gtgggtgttt gtaatcgcca agcaccagct ataggtcaca gccacatcac 1860
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```

<210> 448

<211> 946

<212> DNA

<213> Homo sapiens

<400> 448

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ggcacgagcg gcacgagtcg gcacgagaac actgctatgg gcgttggtcc atgatcaaac 60
ggctggcatg actcatcata gtcacgaaca gttattagcc agccatggct gtggttgctt 120
gccttagcag tcctgtgtta gcattgcttt actctgggca catttttctt attctctatt 180

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317

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ctgggataga agtagtttct gactttctagc cacgttcagt ccaggctgga gagatctaca 240
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aatggtgcta aactaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 946

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<210> 449

<211> 1190

<212> DNA

<213> Homo sapiens

<400> 449

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gaagggtgtt ttgatatttg gaaacagtat aagccatttg gagtcatgat tgggtggtaa 240
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aataaagact attaatagaa aaaaaaaaaa aaaaaactcg agactagcct 1190

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<210> 450

<211> 915

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (915)

<223> n equals a,t,g, or c

318

<400> 450

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gttttggttt cacaagccaa agatgtaccg aagtatagag ggctgctgta tttgcagagc 240
taagtcctcc agttctcgat tcaactgacag taaacgctat gaaaaggact tccagagctg 300
ttttggattg catgagactc gttcaggaga catctgcaat gcctgtgtcc tgcttgtaa 360
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aaagstacaa aatgn 915

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<210> 451

<211> 1862

<212> DNA

<213> Homo sapiens

<400> 451

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atgttaagta ttgttccttg ttatgtaaaa ggggttgaag tgattctaatt ttgttttcaa 1560
ggtagtttta atagattgga agaataattg gccgcctcat cggctccctt ttcattttgt 1620

```


319

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acagtatcaa ggtataggaa ttttactgta tttgactttt tttctctctc ttccagtgac 1680
aatcatagga ggcacgcgtt ttttggcggt tgcattttct gcactattta taagccctga 1740
ttctgggttt taacaagctg tttgttcac tcatatttagt ttaaaatagg tagtattatc 1800
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aa 1862

```

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<210> 452
<211> 800
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (756)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (794)
<223> n equals a,t,g, or c

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<400> 452
gcttccagca ggaatgagtg ctaaaatgct gggaggtgtc tttaaaattg actggatttg 60
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accagtaaag atcggacgtg atggacagga aattgaactt gaatgtggaa cccagctttg 180
tcttctgttt cccccgatg aaagtattga cttgtatcag gtcattcata aaatgcgtca 240
caagagaaga atgcattctc agccccgatc acgaggacgt ccatcccgcg agaaccagtc 300
cgngawgkkg gaaggcgctg accagaagat tatgatattc ataacagcag aaagaaacca 360
aggattgact atccccctga gtttcaccag agaccagggt atttaaagga tccacgatac 420
caggaagtgg acagacgatt ttcaggagtt cgccgagatg tgttttttaa tgggtcctac 480
aatgattatg tgagggaatt tcataacatg ggaccaccac caccttgga aggaatgccc 540
ccttaccag gaatggaaca acctccacac catccttact atcagcacca tgctccacct 600
cctcaagctc atcccccttt acttcaggga catcatccag ttaccacatg gaagcaagggt 660
tacagagatw aaacggagtt acatggatta tgatwttgag ggggtgggatg gattttcctt 720
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aggaggaccc ggnnacgggg 800

```

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<210> 453
<211> 2106
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (2093)
<223> n equals a,t,g, or c

```

320

<220>
<221> misc feature
<222> (2094)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2096)
<223> n equals a,t,g, or c

<400> 453
gcgtccgctg atagctcgat gtgacggagt ctcggtattgc aaagacgggg aggacgagta 60
ccgctgtgtc cgggtgggtg gtcagaatgc cgtgctccag gtgttcacag ctgcttcgtg 120
gaagaccatg tgctccgatg actggaaggg tcaactacgca aatgttgctt gtgcccact 180
gggtttccca agctatgtga gttcagataa cctcagagtg agctcgctgg aggggcagtt 240
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cacatgtggg gaggttaatc taggaatgac tcgtttaagg cctattttca tgatttcttt 1920
gtagcatttg gtgcttgacg tattattgtc ctttgattcc aaataatatg tttccttccc 1980
tcataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaaaaaa aaaaaaaaaa attaataaaa aaaataaaaa aaaaaaaaaa aannanaaaa 2100
aaaaaa 2106

<210> 454
<211> 2288

321

<212> DNA

<213> Homo sapiens

<400> 454

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tgtggggccgt cctgagggtta gccctgcggc cgtgtgcccc cgctctctcc gccgggcccgc 180
gcgccctatca cggggactcg gtggcctcgc tgggcaccca gccggacttg ggctctgccc 240
tctaccagga gaactacaag cagatgaaa cactagtaaa tcagctccat gaacgagtgg 300
agcatataaa actaggagggt ggtgagaaa cccgagcact tcacatatca agaggaaaac 360
tattgcccag agaaaagaatt gacaatctca tagaccagg gtctccattt ctggaattat 420
cccagtttgc aggttaccag ttatatgaca atgaggagggt gccaggagggt ggcattatta 480
caggcattgg aagagtatca ggagtagaat gcatgattat tgccaatgat gccaccgtca 540
aaggagggtgc ctactacca gtgactgtga aaaaaacaatt acggggccaa gaaattgcca 600
tgcaaacagg ctcccctgca tctacttagt tgattcggga ggagcatact tacctcgaca 660
agcagatgtg tttccagatc gagaccactt tggccgtaca ttctataatc aggcaattat 720
gtcttctaaa aatattgcac agatcgcagt ggtcatgggc tctgcaccg caggaggagc 780
ctatgtgcct gccatggctg atgaaaacat cattgtacgc aagcagggtta ccattttctt 840
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aggtgctgat cttcattgca gaaagtctgg agtaagtgc cactgggctt tggatgatca 960
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ctgtgcattg tacttttcta ccttaaaaaa atcagtgagg atattttatt aatgaacatc 1980
aatccttttt aaattttctt agagaaatct ctctgtggct cagttttacc acccataaag 2040
cggagacagt aattttatgg atcctttctg acccacaag tatgaaaagt tctgtaatct 2100
gtaaactcag ttctgtaatc tgtattattg agatgattaa tataaagttg tattttcact 2160
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2280
aaaaaaaaaa
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<210> 455

<211> 2361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

322

<222> (2256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2288)

<223> n equals a,t,g, or c

<400> 455

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ttctcatgta caactttggc tcaagcttgc gtacaagtac ttgaatcaaa atgagggggga 120
gtgctcagaa tccttggatt ctgctttaaa tgttctggcg cgagcattgg aaaataacaa 180
agacaatcca gaaatttggt gccattacct cagattgttc tcaaaaagag gaaccaagga 240
cgagggtcag gaaatgtgtg aaacagctgt tgaatatgct ccagattatc aaagcttttg 300
gacttttcta cacctagaaa gtacctttga agaaaaggat tacgtatgtg agagaatgtt 360
ggagtttctg atgggagcag ccaagcagga aacatccaat attttgcct ttcagctttt 420
agaggctctt ttgtttagag ttcagctgca catatttact ggaagatgcc aaagtgcact 480
ggcaatttta cagaatgcat tgaaatctgc taatgatgga atagtagctg aataccttaa 540
aaccagtgat cgatgtttgg catggttggc ctacatacat cttattgaat tcaacattct 600
cccttcaaaa ttttatgac catctaata taatccttca agaattgtta acactgaatc 660
atltgtaatg ccatggcaag ctgttcaaga tgtaaagact aatcctgaca tgttgtagc 720
agtttttgaa gatgcagtga aagcttgcac agatgagagc cttgctgttg aggaaagaat 780
agaggcctgc cttccacttt acacaaacat gattgctctg caccaactcc tggagaggta 840
tgaggctgca atggagcttt gtaaactctt attggaatca tgtcctatta actgccagtt 900
gctggaagcc cttgttgcac tatatttgca aacaaatcag catgacaaag ccagagcagt 960
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atccttcttt aaaccggggt ttgagaagta taataacttg gatctgtttc ggtatctctt 1140
aaataattcca ggaccaattg acattccatc tcgtttatgt aaaggggaatt ttgatgatga 1200
tatgtttaac caccaagttc cttattttgt gctgatttac tgcctttgtc atcctcttca 1260
atcaagtatt aaagaaacag tggaggcata tgaggcagca ttaggggttg ctatgagatg 1320
tgatatagta cagaagatat ggatggatta tcttgtcttt gcaaataata gagctgctgg 1380
atccagaaac aaagttcaag aattcaaatt ttttactgat ttagtgaata gatgtttggg 1440
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atttcataat agggttattt tcttttattt gagctgtgtt ccaaagaccc agcattccaa 1560
aaccttgga cggttttgtt cagttatgcc agctaattct ggacttgcac tgaggttact 1620
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ctaaggctct tgtaaggcag acaagcggtt ttgatcatat caagttccct acaatatcct 2100
gtcctcaaaa ccggaagcaa tgaacatgat cctcttcggt tggataaatg aacttcctgt 2160
ttggcctgct tctaggccct gccagattct cataacatca tatacgtaag tatagttcct 2220
```

323

caaagtgact gacattttatt ttaatttttgc ttgtnttttn ttawtttct ccccatcc 2280
yttatttngg gttattcctg actcacttga cactctctga tgcctgagag attcctgttt 2340
gggatttaat atccagggt g 2361

<210> 456

<211> 957

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

324

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<400> 456

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ntcngngncan cgnangcggc cccaatcggc acgagcggcc atggcgctcc tgctttcggg 120
gctgcgtgta ctgctgggcg gcttcttcgc gctcgtgggg ttggccaagc tctcggagga 180
gatctcggct ccagtttcgg agcggatgaa tgccctgttc gtgcagtttg ctgaggtggt 240
cccgcgtgaag gtatttggt accagccaga tcccctgaaa ctaccaaata gctgtgggct 300
ttctggaact gctggctggg ttgctgctgg tcatggggcc accgatgctg caagagatca 360
gtaacttggt cttgattctg ctcatgatgg gggctatctt caccttggca gctctgaaag 420
agtcactaag cacctgtatc ccagccattg tctgcctggg gttcctgctg ctgctgaatg 480
tcggccagct cttagcccag actaagaagg tggtcagacc cactaggaag aagactctaa 540
gtacattcaa ggaatcctgg aagtagagca tctctgtctc tttatgccat gcagctgtca 600
cagcaggaac atggtagaac acagagtcta tcactctgtt accagtataa tatccagggt 660
caaccagtgt tgaaagagac attttgtcta cctggcactg cttcctcttt ttagctttac 720
tactcttttg tgaggagtac atgttatgca tattaacatt cctcatgtca tatgaaaata 780
caaaataagc agaaaagaaa tttaaataca ccaaaattct gatgccccaa ataaccactt 840
ttaatgcctt ggtgtaagta tacctctgaa cttttttctg tgcttttaaa cagatatata 900
ttttttttaa atgaaaataa aaccatatat cctaaaaaaa aaaaaaaaaa aaaaaaa 957
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<210> 457

<211> 923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 457

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gggatggtca cacgcgcggg ggccggaaact gccgtcgccg gcgcggctgt tgctgcattg 120
ctctcggccg cactcgcgct gtacggggccg ccaactggacg cagttttaga aagagcgttt 180
tcgctacgta aagcacattc gataaaggat atggaaaata ctttgcagct ggtgagaaat 240
```

325

```

atcatacctc ctctgtcttc cacaaagcac aaagggcaag atggaagaat aggcgtagtt 300
ggaggctgtc aggagtacac tggagcccca tattttgcag aatctcagct ctcaaagtgg 360
gcgagactt gtcccacgtg ttctgtgccg gtgcggccgc acctgtgatt aaggcctaca 420
gcccgagct gatcgtccac ccagttcttg acagcccca tgctgttcat gaggtggaga 480
agtggctgcc ccggtgcat gctcttgctg taggacctgg cttgggtaga gatgatgctc 540
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gccctatgga cagcgatgac agccatggat ctgtgctaag actcagccaa gccctgggca 780
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tgtgcagcca ggaaggcagc agcgcaggtg tggagggcaa gggganctcc tgtcgggctc 900
cctgggcgtc ctggtacact ggg                                     923

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<210> 458

<211> 3058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3045)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3053)

326

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3057)

<223> n equals a,t,g, or c

<400> 458

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cagtatcttt	taagctgcat	tttcctttag	tgatgcattt	gtcaattgca	ctgaatttaa	540
atctgaaagt	cagagggtgat	tattgatagt	acttttgtat	tttgatatgg	acagtttatt	600
catttgcata	cagttattga	ctttttccca	gctgattaaa	agatagtcaa	gaaattctgc	660
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ttttcttttt	tttcttttag	tattttactt	aagcataata	gccacaatag	gacataataa	780
agattataaa	tacagagctt	tattatcctg	acgtcttggg	tcttttaagt	atatactttt	840
ctgaaaggta	tccattttgt	aggcttgggt	tcttcatgag	catacgattg	tttatttttg	900
ctgctgttct	caacatcatt	attgcctgct	gatgtgccac	gatgctgctc	caatagacag	960
caataagatt	gtctctaatt	tgagcagtaa	catgattgca	agagaccaag	tttcacagct	1020
tgtaaagttc	tgattttggg	attcttgcct	atttttccgc	ctgtgttttt	ctgagaactt	1080
atttctgatg	atcaattgaa	tccagtatgt	tttctatgct	atttggttgt	gtataagcta	1140
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taaaatggaa	taaagaaaga	gcagctgcca	cttttaacaa	acataaagga	atatcttttt	1260
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tatggtgcaa	aaagtaatca	ctagattgaa	atacatgaag	gtttttttgct	ttttgacata	1560
cgaaaatgtc	aagagaaagg	caaagatttt	gtactttttc	acttacaaag	cactcctttt	1620
tcccttaaac	ttctttctgt	caaattagat	ttaatgagag	agtactattt	ttaaggagct	1680
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ggatggtact	tgcatatggt	gaattactac	tggttgacagt	ttccgcagaa	atcctatttc	1980
agtggacca	cattgtggca	tgccagcaaa	tgccaacatt	ttgtggaata	gcagcaaatc	2040
tacaagagac	cctgggttgg	ttttcgtttt	gttttctttg	ttttttcccc	cttctcctga	2100
atcagcaggg	atggaaggag	ggtagggaag	ttatgaatta	ctccttccag	tagtagctct	2160
gaagtgtcac	atttaatatc	agtttttttt	aaacatgatt	ctagttaa	gtagaagaga	2220
gaagaaagag	gaagtgttca	ctttttta	acactgattt	agaaatttga	tgtcttatat	2280

327

```

cagtagttct gaggtattga tagcttgctt tatttctgcc tttacgttga cagtgttgaa 2340
gcagggtgaa taactagggc atatattttt ttttttttg taagctgttt catgatgttt 2400
tctttggaat ttccggataa gttcaggaaa acattctgca tgttgatatct agtctgatgt 2460
acttatccat ctcattacaa acaaaaacac acagactgca tttgtagctc tgtaatcctt 2520
gaatacggaa gtaaattttt ttcttttctg actttgacat tgtagctata ctgtttccat 2580
ttttgttttt acaaatcctt tgggtctaata tctgtgagcc tacctatagc actggattaa 2640
aatgtctgca tcatttcttt agttatccag ttaactttta aactgttgta aaagtgtaaa 2700
ccagcccatg acagggtttt gtacatgtta aagaacttca ttgttcagtt ttcatgatta 2760
ttgtgtaagg aagactgatg tagatgttct gtgctgtcct ggaccatgtt aattacactt 2820
acgacgtatt ttagttccac atcacaatga tttgtcccca gtgacccttt tatcctttct 2880
aggcacattt cttgttggtg ttgttggtgc agttccctct tgcattgtat tgctttgaca 2940
actgtaattt gaatcagatc tgaaagaggt ccagaataaa atatatatttg atattaaaaa 3000
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```

<210> 459

<211> 555

<212> DNA

<213> Homo sapiens

<400> 459

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aaactggaac aatgaaaccc aaacactttc accacacttt gggcttttga tttctcacar 60
rgggargtta accmaactyc caaagggtta ataccycaaa cmccttcccc ttgagtgtga 120
cycacattgt taggtgctga cctagacaga ratgaactga ggtccttggt ttgttttggt 180
catatacaaa ggtgctaatt aatagtattt cagatacttg aagaatgttg atgggtgctag 240
aagaatttga gaagaaatac tctgtatttg agttgtatcg tgtggtgtat tttttaaaaa 300
atttgattta gcattcatat ttccatctt attcccaatt aaaagtatgc agattatttg 360
cccaaagttg tctcttctt cagattcagc atttgttctt tgccagtctc attttcatct 420
tcttccatgg ttccacagaa gctttgtttc ttgggcaagc agaaaaatta aattgtacct 480
attttgtata tgtgagatgt ttaaataaat tgtgaaaaaa atgaaataaa gcatgtttgg 540
ttttccaaaa aaaaa

```

<210> 460

<211> 612

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (600)

<223> n equals a,t,g, or c

328

<220>
<221> misc feature
<222> (606)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (612)
<223> n equals a,t,g, or c

<400> 460
ggccactcag agtgggtgtc ttgtgtccgc ttctcgccca acagcagcaa ccctatcatc 60
gtctcctgtg gctgggacaa gctgggtcaag gtatggaacc tggctaactg caagctgaag 120
accaaccaca ttggccacac aggctatctg aacacgggtga ctgtctctcc agatggatcc 180
ctctgtgctt ctggaggcaa ggatggccag gccatgttat gggatctcaa cgaaggcaaa 240
cacctttaca cgctagatgg tggggacatc atcaacgccc tgtgcttcag ccctaaccgc 300
tactggctgt gtgctgccac aggccccagc atcaagatct gggatttaga gggaaagatc 360
attgtagatg aactgaagca agaagttatc agtaccagca gcaaggcaga accaccccag 420
tgcacctccc tggcctgggtc tgctgatggc cagactctgt ttgctggcta cacggacaac 480
ctggtgcatg ktggcagtga ccattggaca cgctagaagt tatggcagac ttacaaataa 540
aaaaaaaactg gctttttgaa aaaaaaaaaa aaaggcggcc gtttaaagac caacntacnn 600
ccctgnttca an 612

<210> 461
<211> 882
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (852)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (877)
<223> n equals a,t,g, or c

<400> 461
tttctttctc cctttcttgg cctctctctg ctctctccca caccctgcag gcaaaacaag 60
gaagagatca tcaattatga aatttgaaca ccaagggacc tgggtgtcct gggcctgagc 120
agcatcgttg gcgtctggta cctgctgagg aagcactgga ttgccaacaa cctttttggc 180
ctggccttct cccttaatgg agtagagctc ctgcacctca acaatgtcag cactggctgc 240
atcctgctgg gcggactctt catctacgat gtcttctggg tatttggcac caatgtgatg 300
gtgacagtgg ccaagtcctt cgaggcacca ataaaattgg tgtttcccca ggatctgctg 360
gagaaaggcc tcgaagcaaa caactttgcc atgctgggac ttggagatgt cgtcattcca 420
gggatcttca ttgccttgct gctgcgcttt gacatcagct tgaagaagaa taccacacc 480
tactttctaca ccagctttgc agcctacatc ttcggcctgg gccttaccat cttcatcatg 540
cacatcttca agcatgctca gttatgagga gtcaaatcct aaggatccag cggcagtgac 600
agaatccaaa gaggggaacag aggcatcagc atcgaagggg ctggagaaga aagagaaatg 660
atgcagctgg tgcccagacc tctcagggcc agaccagaca gatgggggct gggccacac 720

329

```

aggcgtgcac cggtagaggc acaggaggcc aaggcakctc caggacargg cagggggcag 780
caggatacct ccagccaggc ctctgtggcc tctgttttcc ttctcccttt cttggccctc 840
ctctgctcct cnccacaccc tgcaggcaaa agaaaaanccc ca 882

```

```

<210> 462
<211> 733
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (640)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (677)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (687)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (711)
<223> n equals a,t,g, or c

```

```

<400> 462
tccccatggt tctcctacct aaatgattgg ttccctatg gctatttctc caagagttaa 60
gggatatgctg cttaactatg cacctttaca gaacattctt agcagtaatg ctcaaattta 120
aaaggcacac tcaagatact tccatgtcat ggatccttcc ccagggtcca gtartataaa 180
tataggggaag aggttagcat gaacttacwa attgttttaa gtaatcctct tgaatgccag 240
tcattaaagg actttgccc tctacatcaa attacatcct ttccacaaat ccccatctct 300
gtaataactg gtgcaaacct aaagggtgctt tatagtttta ctactttgca gatttgcaat 360
gctgcatata atgcagaaga gcattaaaaa cttttgtaaa aactcatgat ttgataaac 420
ttttaaagta gcgtttatat gtaaatagaa ctacacatgg gcacacacac ttgcacargg 480
gcttcagaaa aacgtgcaat atagggtgagg aaaaatgtct attgaaactt tctcacaggc 540
tgcccttatt aattaaaact agtggtgggg gcaagcaaca tctgtttcca agtaggttca 600
ggggactagg caaaccttaa agggcggcag gcggcctgcn gtttgcttca ttccttaggn 660
ttactgggtt cctacanctg gttttanttg tcttaggtgt ggactttgga nggtacagt 720
tttgtggctt ttt 733

```

```

<210> 463
<211> 574

```

330

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<400> 463

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ntctcaatta aacaaaaanaa aaaagtggag aactggcagt gacctctact gggggccatg 60
gcagggaggg gagccttctg gaagggctgc cttggagatt ggaatgggga ctcccaggga 120
gacctgcgtt ccattccctgc ctgcctcacc cctgccacag actctgcaca ccactggatg 180
gtgggtccaa gcctggcaca gtccctgtgc ttgtcagagt cattattatg attaatatca 240
attacgatgc caaaaattgc tgggcaaaact ttgaagacct caacttgta caatgacgat 300
gatgatgatt cttggcgggt acacaatcct tcctcctggg ggggaggcag ctaggaggcc 360
cagcaggggg gcttctatgc tgctgggctc ccctaggagg ttggggtagt ctgtgccaac 420
tcaggcagc tgctgtggcc tcacccctgg gcccccaat tttgggtcat ccattcctcaa 480
atacactatt tttgcttgta tgctgtgtgc atttgttggg tgtacagagg ggatataggg 540
agagtggtag gcttcccaca cagaaactag gaca 574

```

<210> 464

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<400> 464

```

gtacnngnant cccgggtcga cccacgcgtc cgcggaaggt ccttctgaat cccttccctg 60
ttccttaggt tgcactagtc ggggggtcca tgctgggggg cagaaggaat gctctctacc 120
gtctgaaacc gttcatcagg aaggccttga tttgtgatgt gctaggagag cacaggatct 180
gcaaatagaa ggcacctgtc tcccttctgc aggccgagga gaggccgcca tggactgtgt 240
gcttcttcat ggcttggtta ctcttcttct acagacccta cagcttgggg cctgggctcc 300

```

331

```

tctgaccatc ctcattgaga aaggaaagtg agtccagaga agttgatgct tcctacctgt 360
tggagcggcc cagcagtgtg agcgtgggtg ttactgcccc atccgccatg tccttcagtg 420
ccaccattct cttctccctt cccagtggca gcgaggccag atgctgctgc tgcgcctgta 480
agagtgagac taatggaggc aacacaggct cccagggtgg gaatcctcct cccagcacc 540
ccatcacagt gactggacat ggcttggctg ttcagagctc agagcagctc ctgcatgtta 600
tctaccagcg ggctcgataag gcagtgggtt tggctgaagc tgctctgggt cttgccaggg 660
ccaacaatga gttgttaaaa cgtcttcagg g 691

```

```

<210> 465
<211> 260
<212> DNA
<213> Homo sapiens

```

```

<400> 465
atgagtcaca tttattgatt tgcattwtgtt gaatcaacct tgcattcctgg ggacaaagcc 60
aactccattg ttgcratga actttttaat rtgctgctgg atttggcttg ccagtatttt 120
attgaggatt tttgcacagt gtttaccaaa gacattggca tgatgtgttg ttgttgttgt 180
tggtgttgtg gtatctatga taggttttgg tatctggatg atgctggcct gataggaatg 240
agttagagag aacttcctta 260

```

```

<210> 466
<211> 851
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (727)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (755)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (793)
<223> n equals a,t,g, or c

```

```

<220>

```

332

<221> misc feature

<222> (825)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (842)

<223> n equals a,t,g, or c

<400> 466

```
gcgttcgcgt ggggtcccgcc cccacactcc gccagaggg gcctcagctt ttccaccact 60
gcttttctagt cctttaactc ctagaggcaa acttttgggg gataagaaag cctgggaggg 120
gcctgtgccaa aaaccctctc tgcctgggga ctgggcggtg attccgcttc tgctgggct 180
cctgccatgg ccccgagag gggctgacac tttagctccc ggtgcaggtg agaaccgcc 240
cggaggaaga aggaaggcgc gggccgggga ttaggagacg gaggcggact cggagccagg 300
gaaccagggg tccgggctag agctggagtc gtgagcgcg gcgcgccccg ctctgggagg 360
accgcgagat gcccgctgtg aagcagctgg gccccgcgca gcccaagaag cggcctgac 420
gcggcgccct gtccatctcc gcgcgctcg gcgacttccg gcacacgctg cacgtggggc 480
gcggcgcgca cgccttcggg gacacctcgt tctgagccg ccacggcggc gggccgcccc 540
cgagccccgg gcgcccccg cgggggcccc gckctccccg ccgncgccc cgtccgcagt 600
ccgcagcgcc tcgcctgcga cccgctgtgc cttcacctgg atctggggcc tcatgctgga 660
cgcggtgctg gcgtatggac gcggcgcgcc gaagcggtg cgcaagccac gcgaaccgc 720
ccggacnagc cccagccgtg cgccacgcga ctcantacac natggcttag tctatccggc 780
tccgcccacc atntgtctaa cgcagggggc gaaaaaaaaa aactngggcc gaccatcgct 840
tnggcacat t 851
```

<210> 467

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<400> 467

```
ggcgagacc ccgatcccgg ctgctgggtca ctagtgtctc agaccagaat gacagagtgg 60
ttgagtgcc gctacagacc cataacagca agatgggtgac cttccgattt gatctggatg 120
gggacagccc ggaagagatt gcagctgcc tggatatataa cgagttcatt ctgccttcgg 180
agcgagatgg atttctcaga cggattcggg agattatcca gcgagtggag accctgttga 240
agagagacac tggccccatg gaggtgctg aagacacctt aagccccag gaggagccag 300
caccattacc tgccctgcc gtccccctcc cagaccatc caatgaagag ctccagagca 360
gcacctccct ggagcacagg agctggacag cttctccac ctccctcatt ctttcttcct 420
gggaactcct ttgtctcctg ggaaacccat tttccctgg aacccccatt ttccccaggg 480
tcccatkttt ccccatcnat ttt 503
```

<210> 468

<211> 1905

<212> DNA

<213> Homo sapiens

333

<220>
 <221> misc feature
 <222> (933)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (940)
 <223> n equals a,t,g, or c

<400> 468

ggcacaggac	cagtggagt	agctgttcat	ggatgcgcta	gggcccttca	acttcgtgct	60
ggtgagttcg	gtgaggatgc	aggggtgtcat	cctgctgctg	ttcgccaagt	actaccacct	120
gcccttcctg	cgagacgtgc	agaccgactg	cacgcgcact	ggcctgggcg	gctactgggg	180
taacaagggt	ggcgtgagcg	tgcgcctggc	ggccttcggg	cacatgctct	gcttcctgaa	240
ctgccacttg	cctgcgcata	tggacaaggc	ggagcagcgc	aaagacaact	tccagaccat	300
cctcagcctc	cagcagttcc	aagggccggg	cgcacagggc	atcctggatc	atgacctcgt	360
gttctgggtc	ggggacctga	acttcgcgat	tgagagctat	gacctgcact	ttgtcaagtt	420
tgccatcgac	agtgaccagc	tccatcagct	ctgggagaag	gaccagctca	acatggccaa	480
gaacacctgg	cccattctga	agggctttca	ggagggggccc	ctcaacttcg	ctccccacct	540
caagtttgat	gtgggtacca	acaaatacga	taccagtgcc	aagaaacgga	agccagcttg	600
gacagaccgt	atcctatgga	aggtcaaggc	tccaggtggg	ggtcccagcc	cctcaggacg	660
gaagagccac	cgactccagg	tgacgcagca	cagctaccgc	agccacatgg	aatacacagt	720
cagcgaccac	aagcctgtgg	ytgcccagtt	cctcctgcag	tttgcccttc	agggacgaca	780
tgccactggg	gcggctggag	gtgggcagat	gagtggggtg	ggcccagaca	ggcgggtggg	840
aggttaccgc	wtggaaacak	tkttcgscgg	cagytccctg	gactggatcg	gcttataaccg	900
ggtgggtttc	cgccattgca	aggactatgt	ggnttatgtg	tggggccaaac	atgaagatgt	960
ggatgggaat	acataccagg	taacattcag	tgaggaatca	ctgcccagg	gccatggara	1020
cytcwtcctg	ggctacyata	gtcacaacca	cagcatcctc	atcggcata	ctgaaccctt	1080
ccagatctcg	ctgccttcct	cggagttggc	cagcagcagc	acagacagct	caggcaccag	1140
ctcagaggga	gaggatgaca	gcacactgga	gctccttgca	cccaagtccc	gcagccccag	1200
tcctggcaag	tccaagcgac	accgcagccg	cagcccggga	ctggccagggt	tccctgggct	1260
tgccctacgg	ccctcatccc	gtgaacgcgg	tggtgccagc	cgtagcccct	caccccagag	1320
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tgaagagggg	ccctctgggt	tgcctggccc	ctgggccttc	ccaccagctg	tgcctcgaag	1440
cctgggcctg	ttgcccgcct	tgcgcctaga	gactgtagac	cctgggtggg	gtggctcctg	1500
gggacctgat	cgggaggccc	tggcgcccaa	cagcctgtct	cctagtcccc	agggccatcg	1560
ggggctggag	gaagggggcc	tggggccctg	aggggtgggg	aggcagatgg	gccaaggtga	1620
ccaccattct	gcctcaatct	tttgcaagcc	cacctgcctc	tctcctgctg	ctcctccagc	1680
tgtatctgca	cctgcctctc	tgtcctggcc	aggggtggac	aactgggggtc	ccccaaaact	1740
cagtctggc	acctcaactg	tgacaatcag	caaagcccca	cccaggcccc	catctgggat	1800
gatgggagag	ctctggcaga	tgtcccaatc	ctggagggtca	tccattagga	attaaattct	1860
ccagcctcaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa		1905

<210> 469
 <211> 775
 <212> DNA
 <213> Homo sapiens

<400> 469

334

```

ggaagaaagt acactaacac ttctaggagc ctcttctcag aattgtagtt attccaaaat 60
agcaaatagt tggcataaag ggaaggatta tgtcagcaaa acctttttta aaatccttat 120
ttgattaatg atggtaaaaa ctaaaaaaaa acagagtttt ctattaaaat agcctatggc 180
cttggttaag acagctatcc tagtaagatt atcttatttt ctatttatag acacatccac 240
tyaaactgca tttttatcca gcgttgatct tcacactcac tgttcctatc aactcatgtt 300
gccagaggcc attgccattg tttgctcacc aaagcataaa gacactggca tcttcaggct 360
caccaatgct ggcattgctg aggtttctgc ttgtaaaaaa aagggctttc atccacacac 420
caaggagccc aggtctgtca gtatatgcaa acatgtgttg gtaaaagaca taaaaataat 480
tgtgttggat ctgaggtgat atgttctgaa tgtaagcacc gtcaacatca gacacctact 540
catggacatg tggttgccgg attttcttaa gatgtttcca gaaatgactg atattttata 600
tttatacatt ttagatgaca aagcttgata tttattgctg ttgcacattt taaagttttc 660
tttttgggtt gctctgtgtc aagagagggt acatggtgtt aaatcgggtac ctgataatgt 720
acccaaatac tatggccaga taataaattg tgctgcaaam aaaaaaaaaa aaaaa 775

```

<210> 470

<211> 1297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<400> 470

```

tccgnaattc ccgggtcgac ccacngtcc naatcaagct ctaagtcttt ggaccctctg 60
tggaacatt tctaaccga attttaattt ggctttttca accaaaggct tagagtggta 120
gcaagggatt tcttccaata ggaaacctga tgtttctgat ttaaagagaa ggtgatattt 180
taattgtttg aattaagctc cttgcaaagt tcgggtgtgt ttaccactt agggctttct 240
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agaaatattg gttttattag aaggaaatgg tcatcctctg gaccatggag actagctcag 540
aatagctga tttccctctc ctgactttgc caagcctttg gctgcttttg cctgataaag 600
ggcagggcca tctgaagaca cttcccccag tcggcttttg agtcacggga gctagtgcct 660
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ttttagata aaattctcca ttcaaacatt ttaaaggact ttgaacatta tctgcttatg 840
gaagtgtgtc ccttcacttg gtagtaacc acctcagcca taatacttac catcataggt 900
ttcttaaaat gctttttttt tttccctaaa cttgagtttc cttagtgtt tcaaaatgaa 960

```


335

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gtataagaat atcagatcca gtttagcaaaa gcctaggact tgttttctcca aacattgtac 1020
taacattcaa cttgttttaa aattatgact caagaatttt aaaaaattat tctggacatg 1080
aattaaaact tttttataat ataagtattt ttctgattga aaaaaggata taattgactt 1140
cactctaatt gtcattgata tttccataag taaatggatt ttgaagtatt tttatttttt 1200
gaactttatt taaagcattt gtgatgacat gttcaacttt tgcattgatg tagcctttga 1260
agtaaaaata aataggaatg ttaggctcac gttaaaa 1297

```

<210> 471

<211> 2155

<212> DNA

<213> Homo sapiens

<400> 471

```

aatatagtaa tttttaaatt tgttaataat gaaaaccctt aagcatgcag gatgaggtat 60
ttgggttttt ttttttagatc gatcacatct acagaaaatg gctaaaccaa gtttaactttt 120
attatagaca gtgaataaaa caccaaaaac ccaaaaatgc tttaaccaca gtataaataa 180
tagattatac acatcatcctt aataactatt ttttaagttat ttaccatagc ctctgtatag 240
accttaggaa cagtgtttca gtgatctggc accagtttat tttgttctgc tgaaattctg 300
tatcacaaat gtgctacctg gtttttgtcc attagataat tactctttat aaggaaagga 360
aagagaagca gagttagttc cagctctaata agggatcttc aaagttattt tgtcttgatg 420
tatgtaacag taattcttta catcttttga tttttctctt cttttttatt cactcttccc 480
acgaatttaa atgtttaagt tatattcatc actagcaagg atgrtaaaca cttgtgcact 540
gaaagctaac agggagaggg tacacaatat tttacagktt cttaaacata atttartgca 600
tcaccttcca cttgctaaca taccaagtca gttattttca agggaagaac cttttaaatt 660
atggctctcc atttactact tccactgaga gtatgctctc attcctcagg tgttttgaga 720
aacatgacta ataaccacac aattaagtag agtcattcca agtcctatgg cctggaaatt 780
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ttacatgttt tccaacatat cctaaaaact gtgatataag ctaacatata atttgcctta 900
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caaattcaga gaaagaaaac agattacctg aattcatgga aaaggtggat cacctccctt 1140
tttccacctt caagcctttc ctgtcctcat agccagcatg acttctttta acttggattc 1200
ctttgtatat agtaaagttt agtatatata ttttttttct tttttgctac tttctgaggg 1260
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aacaacttaa cacccttttg tgaagatcac agcatttatc taagaaactg tgaggctttc 1500
tggtttacat atatcttaca ggtgtttttt tgtatttttt ttttttttta gtttgaaatg 1560
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```

<210> 472

336

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (447)

<223> n equals a,t,g, or c

<400> 472

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gcgagatgc agctcaagg gaagaaaggt ggtgcggggcc tgcggggcggg acagagggggg 60
ccggttaactt gtggagggggc ggcctgacaa aggccggggcg cggaggggacc gtgcgaggag 120
cagtgattga wctgccgtcc aatcccagct ctgccgctga ctagttttga aacctgtaga 180
aaggctccgt gtctgcttta attaccggtc cccccaggat tgtttcaaga attcagtagc 240
tgaggctggg agtggtggct ttgtaatccc agcgctttgg gaggcctggg cgggaggatc 300
gcttgagccc gagaccggcc tgggtgacat ggtgagatct cgtctctaga ggaatgcaaa 360
ggttggcncg ggcgtggtgg cgcacgcctg tgggtcccggc tgcttgggcg gctggngtgg 420
gaggattgct tgaccncnga ggtcaanggc tgcactgca 459

```

<210> 473

<211> 710

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<400> 473

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cctcgtcata ttctaagata tccctaagaa attcttcaaa agtaacggaa tcagcatctg 60
tgatncaatc ccaggatgtg agtgggtctg aagatacatt cccaaataaa cgacctaggc 120
tagaagataa gactgttttt gacaattttt ttatcaagaa agagcaaata aaaagcagtg 180
gtaatgatcc aaagtatagt acaaccacag ctcaagaattc cagcagttca tccagtcaga 240
gcaaaatggg taattgccca gtttgtcaga atgaagttct ggagtctcag attaattgagc 300
acttgggactg gtgccttgaa ggtgacagca tcaaagtcma aagcgargaa agtctttgaa 360

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337

```

aaagggtttca aagtctcaag taccacctgt attatctcac taatgtgcta tgtcagccag 420
tcaggaagtt ctggttaata ctaagatttg taggttataa tctagttcac ataaccaata 480
gaaagtgtcc tattttatat atacgcataa aagattgtaa ttttaagatg ttttgtgtct 540
cagggtgcta cattcactct tgccttaggt atactgtaac ccaggttctg cctgtcgtgt 600
ataattttta gatacttttkg ttctttcttg ctcttaagga ttttaaaaac ctgktaatct 660
ttttatttgt atacttttct aaaaatattc atatggggaa tcctgtcaaa 710

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<210> 474

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 474

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gcccacgcgt ccgccgcaag ccaacagggg tgtcgtgcgg tgggagtact tccgcctgcg 60
tcctctgcgg ttcagggccc ctgcactgag gctgcagaag tcccagtcac ctgatctgct 120
ggaaagggag agggagagtg tcctgcgccg ggagcaagag gtkscagagg agcggagaaa 180
tgctctcttc ccagaggtct tctccccaac gccagatgag aactctgacc agaactccag 240
gagctcctcc caggcatccg gcatcacggg cagtactcg gtgtctgagt ctcccttctt 300
cagccccatc cacctacact caaacgtggc gtggacagtg gaagatycag tggacagtgc 360
tcctcccggg cagagaaaaga aggagcaatg gtacgctggc atcaaccctt cggacggtat 420
caactcagag gtccctggaag ccatacgggt gaccctgcac aagaacgcca tggcagagcg 480
ctgggaatcc cgcactctac ccagtgagga ggatgactga gcctcgggat ggggcgcccc 540
ccccctgccc tgccctgacc ctgctgggaa ctgccaagac catcgccaag cccccacctt 600
aggaaatggg tcctaggtcc aggatccaag aaccacagct catctgcca caatcccacc 660
atgggcacat ttgggactgt tgggtttttc gtttccgttt ctatcttctt ttagaaatgt 720
ttctgccttt ggggtctaaa gcttttgggg atgaaatggg acccctgctg attctttctg 780
cttctaagac tttgccaaat gccctgggtc taagaaagaa agagaccgc tcctccactt 840
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gagaagtccc aagctgagag gggagacctg cccctttcca accctgggaa accatccagt 1020
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ccttggtgca cccagccaca cctggtggac acaaagctct cacatcgata ggatccccatg 1140
aggatggtcc ccttcacctg ggagaaaagt gaccagttt aggagctgga ggggggtctt 1200
tgtccccac ccccaaactg ccctgaaata aacctggagt gagctgcca aaaaaaaaaa 1260
aaaaaaaaa aaaaaaaaaa 1279

```

<210> 475

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

338

<220>
 <221> misc feature
 <222> (470)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (475)
 <223> n equals a,t,g, or c

<400> 475
 tgactcgcag tggagtcagt caacaaccca ggtctcctgg ctcttaagac gtttcctttt 60
 taatattata ggaatgggaa tgctggctcc ttttacagta ctgggccctt tacactgtac 120
 tgcatactcg ttttttcagt ggatatatga gcttcttgtc aaaattatgt ggggtcccatg 180
 aagaaacatc taaccagggg aaggggggaag gattgagaca taagacgtac ttatataaga 240
 tttcttttaa gaattccaat cttggacatg ttaaattttt ttatatatttc tcatgtttaa 300
 atctcagttc gtttttcatt ctgtgctcag cacgtaagtg tggggaaatg gacnaagggg 360
 gctgcgggaa ngaccgctgg ctgggctcaa catgcctgtg ctttttcccc ttcattgtgtt 420
 cttgtgtctg atgcatctct aacacagaat gacattttac tgtttttcan aaaanaacct 480

<210> 476
 <211> 947
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<400> 476
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 tcggggaaat ccaccgtggg cgccctgctg gcatctgagc tgggatggaa attctatgat 120
 gctgatgatt atcaccgga ggaaaatcga aggaagatgg gaaaaggcat accgctcaat 180
 gaccaggacc ggattccatg gctctgtaac ttgcatgaca ttttactaag agatgtagcc 240
 tcgggacagc gtgtggttct agcctgttca gccctgaaga aaacgtacag agacatatta 300
 acacaaggaa aagatggtgt agctctgaag tgtgaggagt cgggaaagga agcaaagcag 360
 gctgagatgc agctcctggt ggtccatctg agcgggctgt ttgaggatcat ctctggacgc 420
 ttactcaaaa gagagggaca ttttatgccc cctgaattat tgcagtecca gtttgagact 480
 ctggagcccc cagcagctcc agaaaacttt atccaaataa gtgtggacaa aaatgtttca 540
 gagataattg ctacaattat ggaaacccta aaaatgaaat gacaatgatt ttgtatcagt 600
 ggtccaaaca gaactaagca taaatcattg tgccatccca aacctcgttc cagccgcctt 660
 gccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720
 ttaggtgtaa ttttaggaat tatgctgggt catcaggaag cagaggggga gttttaaaag 780
 tcaagcttaa attgaagttt aaattcatct ataaccaaat caaatgatca gaggaaattc 840
 tgtaatcaat gctggaaatc gttacattgt ttagaacatt cttgctcatg cctgtatttg 900
 cacaaataaa tgaaacttcg ctgtcaaaaa aaaaaaaaaa aaaaaaa 947

<210> 477
 <211> 585
 <212> DNA

339

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 477

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accaggacca cggggcctgg ctgcgcggcg gggatgtgtg gctggacagc tgccggtttg 60
ctgacaatgg cattggcctg accctggcca gtggtggaac cttcccgtat gacgacggct 120
ccaagcaaga gataaagaac agcttgtttg ttggcgagag tggcaacgtg gggacggaaa 180
tgatggacaa taggatctgg ggccctggcg gcttggacca tagcggaagg accctcccta 240
taggccagaa ttttccaatt agaggaattc agttatatga tggcccatc aacatccaaa 300
actgcacttt ccgaaagttt gtggccctgg agggccggca caccagcgcc ctggccttcc 360
gcctgaataa tgcctggcag agctgcccc ataacaacgt gaccggcatt gcctttgagg 420
acgttccgat tacttccaga gtgttcttcg gagarcctgg gccctggttc aaccagctgg 480
acatggatgg ggataagaca tctgtgttcc atgacgtcga cggctccgtg tccgagtacc 540
ctggctncta cctacgaaga atgacaactg gctggtccgg cacc 585
```

<210> 478

<211> 3470

<212> DNA

<213> Homo sapiens

<400> 478

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aattcggcac gagaaggatc ggggcccctcg ccgctctgtc tcattccctc gcgctctctc 60
gggcaacatg gcgggtgtgg aggaggtagc ggccctccggg agccacctga atggcgacct 120
ggatccagac gacagggaag aaggagctgc ctctacggct gaggaagcag ccaagaaaaa 180
aagacgaaag aagaagaaga gcaaagggcc ttctgcagca ggggaacagg aacctgataa 240
agaatcagga gcctcagtgg atgaagtagc aagacagttg gaaagatcag cattggaaga 300
taaagaaaga gatgaagatg atgaagatgg agatggcgat ggagatggag caactggaaa 360
gaagaagaaa aagaagaaga agaagagagg accaaaagt tcaaacagacc ctccctcagt 420
tccaatatgt gacctgtatc ctaatgggtg atttcccaaa ggacaagaat gcgaataccc 480
acccacacaa gatgggcgaa cagctgcttg gagaactaca agtgaagaaa agaaagcatt 540
agatcaggca agtgaagaga tttggaatga ttttcgagaa gctgcagaag cacatcgaca 600
agttagaaaa tacgtaatga gctggatcaa gcctgggatg acaatgatag aaatctgtga 660
aaagtggaa gactgttcac gcaagttaat aaaagagaat ggattaaatg caggcctggc 720
atttcctact ggatgttctc tcaataattg tgctgcccac tatactccca atgccggtga 780
cacaacagta ttacagtatg atgacatctg taaaatagac tttggaacac atataagtgg 840
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agctgtaaaa gatgctacta acactggaat aaagtgtgct ggaattgatg ttcgtctgtg 960
tgatgttggg gaggccatcc aagaagtatt ggagtcctat gaagttgaaa tagatgggaa 1020
gacatatcaa gtgaaaccaa tccgtaatct aaatggacat tcaattgggc aatatagaat 1080
acatgctgga aaaacagtgc cgattgtgaa aggaggggag gcaacaagaa tggaggaagg 1140
agaagtatat gcaattgaaa cctttggtag tacaggaaaa ggtgttggtc atgatgatat 1200
ggaatgttca cattacatga aaaattttga tgttggacat gtgccaataa ggcttccaag 1260
aacaaaacac ttgttaaatg tcatcaatga aaactttgga acccttgcc tctgccgcag 1320
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gggcattgta gatccatata caccattatg tgacattaaa ggatcatata cagcgcaatt 1440
tgaacatacc atcctgttgc gtccaacatg taaagaagtt gtcagcagag gagatgacta 1500
ttaaacttag tccaaagcca cctcaacacc tttattttct gagctttgtt ggaaaacatg 1560
```

340

```

ataccagaat taatttgcca catgttgtct gttttaacag tggacccatg taatactttt 1620
atccatgttt aaaaaagaag gaatttggac aaaggcaaac cgtctaattgt aattaaccaa 1680
cgaaaaagct ttccggactt ttaaattgcta actgtttttc cccttcctgt ctaggaaaat 1740
gctataaagc tcaaattagt taggaatgac ttatacgttt tgttttgaat acctaagaga 1800
tacttttttg atattttatat tgccatattc ttacttgaat gctttgaatg actacatcca 1860
gttctgcacc tataccctct ggtgttgctt tttaaccttc ctggaatcca ttttctaaaa 1920
aataaagaca ttttcagatc tgagagctac atctcaatgt ctgtgggttat aattctggac 1980
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gacaatcacc ttttcttcat aaatatacag ctttaggaat atttcaccat tctttgtagg 2160
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ctcaaaccaa ttaggagctc caagctccct tcccaggtaa ctggtgggag caatggcatc 3240
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aaaaattgta ttgtttgctt attagccatg tatctcttaa aattttgtta tgtttacaac 3360
gatgtacctt attggcaaca agttattagt ttgatgttta acaatagtgc ctttagtaaa 3420
ttattttaca actaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3470

```

<210> 479

<211> 637

<212> DNA

<213> Homo sapiens

<400> 479

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acgccttggc catcgtgaa aagtctcagg agttcttggg agcagataat cgccagctgc 60
ccaatggtgt ttacacaact gcagagcagc gtccgaatgc ctacatccca gaagcagatg 120
ccactcttcc tttgccaaaa ccttatgggtg ctttgggtcc ttttaaacc cagtgaaactg 180
gagccaatat gaggcacata aggaaacctg ttataaagcc agttgaaatc tgaatatgtg 240
aacaaatcca ggcctctcaa ggaaaagact tcaaccaggc ttccttgtag ccacagggtg 300
aaaatgtgag cataatactt ctaatatatt tgataagtaa ggtaaccaca attagtcagc 360
aacagagtac aacagggttt ctattttacc accaactact atacctttca tgacgttgaa 420
tgggacatag aactgtccta catttatgtc aaagtatata tttgaatygc ttatattttc 480
tttttctact ttatatattg gtacattcca gaaatttgta gtaggcaagg tgctataaaa 540
atgcactaaa aataaatctg ttctcaatga agtacggaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cggccgc 637

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341

<210> 480
<211> 1889
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1370)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1844)
<223> n equals a,t,g, or c

<400> 480
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gtctgggcga actgacgtgc cagttcatcc tgctgcatcg catcgatttc atcatcgttg 120
tactgatcgc cagaatcgta ctgattgcgc tgggcttcac gggctttttc ttccgccgca 180
cgctgtgagg gcagcttaat accgtaagac gccagttcac gacgagttgg cagcgcgata 240
cgtttcggtc gtggcaactg cggaccaatc ccctctttga cctgaggacg cgggtccaccg 300
ctatttgcca gactgaagac tggcgcgga acggttgccg cagccccgtc gccagtgtcg 360
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gaatcggttg ataccaggcc gcaagttggt caggttcacg ggctcgcttc tcttcaactt 540
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342

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ttcgtcatca tcccatccgc tttaccggag aacaacgcag cgtctgtttg ccgccccatc 1260
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gcacggcggtg attcatgctg tttgcccgtg attttcatct tcatactctn cgtcgtcttc 1380
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gcaaaccaac aaccgccgac aataatgacg ggaatgggtg aagccattca cgccaaaaat 1800
aaagaacagc gtatctgcc aaccagcacc gggcatccca cctnaattat ggatagggtc 1860
atgccaggcc gtttgcgacc agctgggggt 1889

```

<210> 481

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 481

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taacgatttg tgttgtagaga ggcgcaactg cgattttctgc tgaacttgga ggcatttcta 60
cgacttttct ctcagctgag gcttttcctc cgaccctgat gctcttcaat tcggtgctcc 120
gccagcccca gctkggcgtc ctgagaaatg gatgggtcttc acaataccct cttcaatccc 180
ttctgactgg ttatcagtgc agtggtaatg atgaacacac ttcttatgga gaaacaggag 240
tcccagttcc tctttttgga tgtaccttct cttctgctcc caatatggaa catgtactag 300
cwgttgccaa tgaagaaggc ttttgttcga ttgtataaca cagaatcaca aagtttcaga 360
aagaagtgct tcaaagaatg gatgggtcac tggaatgccg tctttggacc tgggcctggg 420
ttcctgggga attaaaattg ttacagcagc agnggtcaaa cagccaattt tnggncgtaa 480
aactgggtgag ncg 493

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<210> 482

<211> 473

343

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 482

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ggcgggggag agggaccagg gaaggcgctcg gggggaatct cgcgagggtt ggagtttttg 60
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taaacgactt actaggggaag ctatgcgaaa ttatttaaaa gagcgagggg atcaaacagt 180
acttattctt catgcaaaag ttgcacagaa gtcatatgga aatgaaaaaa ggtttttttg 240
cccacctcct tgtgtatatc ttatgggcag yggatggaag aaaaaaaaag aacaaatgga 300
acgcgatggg tgttctgaac aagagtctca accgtgtgca tttattgggr taggaaatag 360
tgaccaagaa atgcagcagc taaacttggg aaggaaagna ctattgcaca gccaaacmtt 420
gtatatactt grctcagcca gcgaagactt tcatgttgtc tgtaaagtgt tct 473

```

<210> 483

<211> 851

<212> DNA

<213> Homo sapiens

<400> 483

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ggaactcagt aacgccttga gctgggttga ttgaggatgt gtgaaaagct cacagagccc 60
gatgcctgct gctatttcac ggcaatgagc ctttttcttt ctacactgaa gattttcttc 120
ttattttaatg tgggtttattt tgggctcaga aataattgct ctgttgaaaa taatcctttg 180
tcagaaaaga aggtagctac cacatcattt tgaaaggacc atgagcaact ataagcaaag 240
ccataagaag tgggttgatc gatataattag gggtagctct tgattttgtt aacattaaga 300
taaggtgact ttttccccct gcttttagga ttaaaatcaa agatacttct atatttttat 360
cactatagat catagttatt atacaatgta gtgagtcctg catgggtact cgatgtgtaa 420
tgaaacctga aataataaga taataagaaa agcaataatt ttctaaagct gtgctgtcgg 480
tgatacagag atgatactca aattataata aaactcttca ttttgtgaat tatagaagct 540
actttttata aagccatatt tttttaggga aactaaggag tgacatagaa ctgatgaatg 600
agyaaaagta agttttgctg gatttttgta gaactctgga cgltgaggat tcattatgct 660
gtggttaact ttaaataattt ttgaattcca aatatctgaa ttaatgagcc ttgtctttac 720
aaatatgtgc cattgtgcaa catcgggtgga ttttctaaaa ataatgtaaa tgtctcttat 780
taaagtgtga gtgcaataaa atacagaaga attctcaaaa aaaaaaaaaa aaaaagatct 840
ttaattaagc g 851

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<210> 484

<211> 1500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1430)

<223> n equals a,t,g, or c

<220>

344

<221> misc feature
 <222> (1451)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1454)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1457)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1499)
 <223> n equals a,t,g, or c

<400> 484
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 atactttcaa tggaaacaga tttgcaactcc gtttgacagc cattttcctc caaccactcg 180
 ggaaactcgt agtaagagca ttacatgggc cctggaatac tgattcgctt gataatttgg 240
 aagaagtga gtttttactt catatgtggg tagctctgtt ttacagcaat cagaacaaaa 300
 tcatacgatc ttcccgaag gttgtagaac acagcaaccc agcaaaatat gtgtctataa 360
 atagcacgtt agaactctgt gagctccgtg aaattgagga gtcccttggt ttggaaaaat 420
 gttctgcaga ctctctgttg gagactaacg aaatttccag ggctcatgct gctgaagtat 480
 ccttccgtga tcttaactgc ttgcttcctt tcattaaaaac accacttacc caaggcttgg 540
 aactctgtgt acaaaatgaa cagaaaaaaa cttttgcaag agagtgtgat ccagacaccc 600
 aagaagacca gaatttcacg tgttcttaca ataatgaggt aactggggaa gaagctaaac 660
 aagaatcatt ggagacttct aatcttgtgc tttcgggtat tggaagtaca caaactaatg 720
 gaccttctgt tcctagtga gaagaaattg ttcagccact ggatagcaca agagtggctt 780
 cttacagtgg cactgttact caagccacat tcaccaggac ttacgatggg cctggcagtc 840
 agccagtgat atgtcagagc tctgtgtacg gcacccttga aaacaaagtg gatattcttg 900
 atgcagcagt gcaaacaaaa acaggtactt tacaggacct tatccaacat ggcagcccca 960
 taaacaatga atgtcaccct tccttggaag gaaaggatga taatatgggg kgtgcartga 1020
 ttaaccggga accaattact ctacaccttg aaaaaaatgc acatgtacca atacagacag 1080
 aagggtgtaa tactgctgat gaacctacaa cctttaagaa ggagttgatt aagcaagtat 1140
 cacctgctgc aagccttaga catcctgtat ccacctcgga aaatgcacga acacaaggcc 1200
 tgagggacat tccctctcta gtagttgcag gacagaaggg cactaagtac ctttgtgcct 1260
 cgtcagtagg tgagagagaca cttgataaag cagtgtgttc attacagaag gagacgcccc 1320
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 gttctagtca tctatcacc agtgaagaar tgagatgcac tcaggatttn ctttyacaga 1440
 ctyagartct nctnggncta tctttagaaa ggcttcttag aacttgacac aggttgaant 1500

<210> 485
 <211> 491
 <212> DNA
 <213> Homo sapiens

345

<220>
 <221> misc feature
 <222> (452)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,g, or c

<400> 485
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 ccctgcctac ctccctgcctg tccccagagg ctgaggakag ggggtactgt gcccaccaca 180
 catrattagg cctcagaccc aactctggtc ctggctccac aacagtggct gccactcact 240
 ttgtccagaa ggtggccttg ggggtggatat ctttgggttg ctggaaaagg tgtgggaagg 300
 ttcaggatgg tgggagggac tgaggctcct gaggtgaaga ggcccttggc cctgacgggt 360
 ttgaccctgt cctggaccct tggagcagtg ttgtgtgaac ttgcctagaa ctctgccttc 420
 tccgttgtca ataaagcctc cccctcatga cnnaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
 agtcgtatcg a 491

<210> 486
 <211> 1317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1310)
 <223> n equals a,t,g, or c

<400> 486
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 aaaaagtgtc ttttgaaaat gttgagggtg aaatgatggg aaccaacatt ctttggattt 120
 agtgggggagc ataatagcaa acacccccct gggtcgcaca tgtacaggaa tgggaccag 180
 ttgggggcaca gccatggact tccccgccct ggaatgtgtg gtgcaaagtg gggccagggc 240
 ccagacccaa gaggagaggg tggctcgcag acacccccgg atgtcagcat cccccgacct 300
 gccttcttggc ggcacctccc ggggtgctgtg ttgagtcagc aggcattgggg tgagagcctg 360
 gtatatgctg ggaacagggt gcaggggcca agcgttcctc cttcagcctt gacttgggcc 420
 atgcaccccc tctcccccaa acacaaaaca gcacttctcc agtatgggtg caggacaggt 480
 gtcccttcag tctcttggtt atgacctcaa gtccactctg ggccctgcag ccagcctgt 540
 gttgtaacct ctgcgtcctc aagaccacac ctggaagatt cttcttccct ttgaaggaga 600
 atcatcattg ttgctttatc acttctaaga cattttgtac ggcacggaca agttaaagag 660
 aatgtgcttc cctccctggg gtctcacaag ctcccacgag aatgccacag gggccgtgcr 720
 ctgggcaggc ttctctgtag aaccccaggg gcttcggccc agaccacagc gtcttgcctt 780
 gagcctagag caggaggtcc cgaacttctg cattcacaga ccacctccac aattgttata 840
 accaaaggcc tctgtttctg ttatttcaact taaatcaaca tgctattttg ttttcaactca 900
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 cgcgtactgg aaacttgctg accactatgc tgagaatcct tcgcactgta atcgagagcc 1140

346

gcgatgcctg acagtgcctg atggatgcgc cttagcgtac gggtttgtgt gcggacgaat 1200
 cactaggcct tgtccttttg aagggggctc gggagggggg gtgttccaaa aatggggccaa 1260
 atttggcgct agttaaacac gtttgtgggg aaaagcaaag ggggttatan aagtttc 1317

<210> 487

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (932)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (944)

<223> n equals a,t,g, or c

<400> 487

tgcaccacg cgtccgccca cgcgtccgga cagaccacg ctggagctgg cccctggcct 60
 gtgtgctgac ttcttggggg cctcaaacca ctgtattttt ctgttgagcc tgtacttggg 120
 gagagatcag tagcatttga ggaagtaaga gaaaagaatc atgggtacctc aggggttctt 180
 tccctttact cgctggcagc cattgtctgt gggcacctca tgtttttcca cactctactg 240
 ggccgtggag gtaacgatca cccaggccag tctcctctgc ctgggatgcg cccctctgaga 300
 ggaggcctag cagggcaggc tccctctggg catccctgga tgcagcctct ggacacatgc 360
 ctcctttaaa gtgtccgggt gcagctcagg ttgagtggag gtagaaggag aaacagacat 420
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 tctcttgttt tgttcgtttt gggggtgggt gtgctggctg ggccatgctt gtgaagtgat 540
 gtgtgtctct gatttaacgg attcactggt ttctctgcta attgagagag cgttattttac 600
 attatatttatt tgttttgaca caagtgtctt cagtgtttta tcctagctaa tggcttctta 660
 aaggtaataa aacccttcca acgtaattgg tcagataaaa ctttttttct tgtatgctta 720
 aataaagcaa ttagtgaagc acttctatcc aaaatgactt ttttgcctt ttttaaaacc 780
 aatttactgt tactggaaac tttttgtaca ataaagcaat cagcgagatt aaagaaaaaa 840
 aaaaaaaaaa aaaaaaaaaa aagggcggcc gctctagagg atccaagctt acgtacgcgt 900
 gcatgcgacg tcatagctct tctactacgt gnaccctaac tncn 944

<210> 488

<211> 1677

<212> DNA

<213> Homo sapiens

<400> 488

gaattcggca cgaggtttgc agagtgtctt cgcgccctra tctcattgga gccatggact 60
 ggaagacact ccaggcccta ctgagcgggt tgaacaagta ctccacagcg ttcgggcgca 120
 tctggctgtc cgtggtgttc gtcttcggg tgctgggata cgtgggtggc gcagagcgcg 180

347

```

tgtgtggggga tgagcagaag gacttttgact gcaacaccaa gcagcccggc tgcaccaacg 240
tctgtctacga caactacttc cccatctcca acatccgcct ctggggccctg cagctcatct 300
tcgtcacatg cccctcgctg ctgggtcatcc tgcacgtggc ctaccgtgag gagcgggagc 360
gccggcaccg ccagaaacac ggggaccagt gcgccaagct gtacgacaac gcaggcaasa 420
agcacggagg cctgtggtgg acctacctgt tcagcctcat cttcaagctc atcattgagt 480
tcctcttctc ctacctgtg cacctctctt ggcattggctt caatatgccg cgcctggtgc 540
agtgtgccaa cgtggccccc tgccccaaca tcgtggactg ctacattgcc cgacctaccg 600
agaagaaaat cttcacctac ttcatggtgg gcgcctccgc cgtctgcatc gtactcacca 660
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ctcgaggggg ttgcagcccc tcgtcctccg ccagccgagc ttccacctgc cgctgccacc 780
acaagctggt ggaggctggg gaggtggatc cagaccagg caataacaag ctgcaggctt 840
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gcctttcaga cctgtctccc agggacttgg gtggatgcgc tgatagaaca tcctcaagac 1620
agtttccttg aaatcaataa atactgtgtt ttataaaaaa aaaaaaaaaa aaaaaaa 1677

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<210> 489

<211> 1640

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<400> 489

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tttagatctc aggtctaaag cttcctttcc ctccctctcc cagctagttt gtgctaatta 60
agagaccttt tatactgttt tattgcctgt ttgaagaaat aatttttatc acgtttttgt 120
aagatatcta taattttaaa tgtttataaa ttgtttaatt tattagcatc ttaatgtacc 180
ccatttttat atactgaatg tggccttttg agtgaaatag gaagcttcat ggtgttggag 240
ccacctttgt acagttgttt aaagtttccc attgtcacgg aaaacattgg ytgaaaagcc 300
cctcaaagcc ctcaagtgcc ttctgtgagt ttaaattgtc tgggtgccctc cagaaaagcc 360
tcggcctcag ctccgtttcc gcctgttccc tccccagga taatgaatgg ttactgcact 420
gtaaagaccg tggctctctt tcaactaaata ggagattcga gtttcccagt ttacatgaat 480
gaagtctgaa ttttaagacgg tgatgaaact gaggttcagt actctcggga ctcgaggaaa 540

```

348

```

ttattcctga gacatggagt aattcttaca aatttaaact attgtacaga tccacatata 600
tggtgttaag tacctaagt tttgctgaac ttttaaaagt taatttccaa aatgtatagg 660
gattcatgat aattaaacn tttttattgc tcatnttttt agtagaagaa tatcacttat 720
ttttagactt gtaaaatgta tgractgggt agcggacatc tgtaagaga gtcactagtc 780
agaatgttaa aggagtgcac gcaggatgcc ccaaatgtcg tgaactcttg ttactcctgt 840
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cctgattcca aacagggtgtg gagaatattg aacggctcag aagccgcgtc ccttacttaa 960
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atgtccacag ggggacctgc ctcccgtgat gtcccacctt tccttcaagg tctgtcatat 1260
gagtcctccc cttttacaac acttattatg gtatttttca agttattctt cttagatttg 1320
cagtacctac tgaaatttgt gtttttatag ttgaagttag gaaaatgcta tttgatttgt 1380
awttagatat ttaagtcact tgtccaatga tgtgtatgct taagcctcat gtaccgattt 1440
gaagtcagac ttaaaaatgt atttacagat tcacttgaga ctttttaatc gggtcttcaa 1500
atatttcatg ttacatttaa aaatttccag agaagcataa aagtattcac tttcctgcct 1560
tgtcatttct ggaaagattt tggggagata ttttattgca tattaattaa taaattgttc 1620
tactaggaaa aaaaaaaaaa 1640

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<210> 490

<211> 637

<212> DNA

<213> Homo sapiens

<400> 490

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atttcggcac agtaccgctg ggaccagcct tatctcagac ctgcttacct gcatgatgcc 60
tttttggggg ctggggattg artcttgctg ctctgcccag ccctgttcta ttctgcargg 120
tccctgtgtt ggaattctcc ctggggaacc tactttctgc tcagtgargc tccggccaga 180
aacctggagt ccttatectc ccctctgtaa gtgttttagg gtctggcttt tgcaggcacc 240
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gccaaagcct cactgtcacc ctttctgcct tgggtttcct agctgagcca cgctgcccac 360
gcagcagagg gcagaaggct tgcacttggg ccaaagggcc taagggtccac tggacagtgt 420
ggaaaacacc tgaccacat ttaaggactc taagccagaa tggaaaattc accaggactc 480
cattcttaag cctatgcgag tcccctagag agaggcattg tactgatata taaatattat 540
ataatatata catgagacat actgacagaa tctgtaagct aataaaatgt aagaaaaggt 600
taaaaaaaga ataggtaaag tgacaagaag taaaaaa 637

```

<210> 491

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

349

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 491

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gtattttacaa agagaagggg ccactcgtgt gtgagcagca ccgagggaca gaggtacctt 60
gcctgcttgt gtccccctcca agtccttctg atatttttctt ttccagctgt tgcctagttt 120
cctgggtatta aggagaatca actctctgga taaacgtggg aaatatggcc catagtccca 180
tcttttttaca ggcatttttt acacctggag cagccagagg acgcatgcat ggctcttcgg 240
aaggtaattt agggatcacc catgtaagtt tcctaaggat ttctttaaca tggttcttct 300
gattcagtcg ggccaattaa atctgaaatc caccctnga aagccatctg gtgtggataa 360
caaggcccac aaattgaggc agttcagctt tttgtgncct tttaggcytg ggacaaccac 420
gggatcttaa aggggggngg ggaactagga ggtttttgag ttcc 464

```

<210> 492

<211> 777

<212> DNA

<213> Homo sapiens

<400> 492

```

tctgtgtcac tcttgtatgt cctcatatct ttcatacttc ttgtgtagtc tctagaagca 60
gaacacctaa gtccctgggtc tggataatga aaccctcagt ctctggggcc tctgaaaata 120
aggaagcatt ggagctattg ccatgttgag tartgggctt cctagaacta ttgtcatcta 180
tcctgccagt gttttatggt gtagctgttt ttctttgaca ggtgagttcc agctatgttg 240
ttagtcatga tcctgccatt attttctgtg ttctgtagga tgtctccagg ctacttaaac 300
atattttatg agtttgcaat aaaattgttg aatcttgtat gatcaagtca ctctctgct 360
cagaaatcca cagtgacttc ttagtaagcc cctacattat atgcatactt gtttttttct 420
taactttact ccactttcta cctaacaggg acctcaactt aagtctcttc agttcttcaa 480
ggcctggcct tgttcctgat tcctcaaaaa atcttgactc taaggcctat tttattgtct 540
gtctctgaat ccctataaag cttcaagtct gtatgacatt cttaacgcca aattatata 600
tgtcttgtag tgttcctagc tggtagatgt atattagtct tgtctccctc atgagaatgt 660
aagctcctta agggcagggg ccatgtctta atttttgtat ccaccacagg cctagcacag 720
tgcttggcac atgggtgctg aataaatacc tttgtttatt gatcarmaa aaaaaaa 777

```

<210> 493

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

350

<400> 493

```

tccaagctcg aattcacctc actaaagggg acaaaagctg gagctccacc gcggtggcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagat taataaaaca 120
gaggagtaca ttttaccctt gcaattccag tcaatactgt ggtgtcattt cagccaacat 180
accaacattc agtcaaattc caaagccaaa tggataattt cagatggaat ggagttagac 240
aggaactggc ttccctttct cctgttacta tgaggacaac ccacacctgc tcagtggcct 300
aaaatatttt aaatatgttc atgacaatta tgctgagaat gccaggataa crctgatgga 360
acccatgact tcaccaggat tgtggtctac atttacaggc ctagtactag aactagaccg 420
gcttagagag tgggagatat ccctctgttg tccatcgaaa agataaaaat acaggctttc 480
agccggtgtg cagtgggtgca tgcctttggn ccccgctac tnaagggggc tgagaatggg 540
ggaatccttt ttgagcccca gaaa 564

```

<210> 494

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<400> 494

```

ttagagctca atgctttgtc ctctgtcatc cttctactgc atccctttct tcgtttcttc 60
acttcaactt tttagtaaac ttgtctgagg cattagcttt actcttacgc attttgctcc 120
cctgcctttt tgttataaat attatcatgg catgaaacaa aaagcctgtt atctgccttt 180
ccatgatcac tttgctgaca ctgtttcagc cacaagtaaa cctagcaact ctatgaatag 240
caggacagac ttgaatgtgg tgtgtgtgca aggaagttat ttnaactttc ttaatcttaa 300
atgccaccag aaaacattct gctccctgtt acttcttttt tttttttttt aaattacttt 360
gttttgcggt aaggagttgg ggaatgtgtg gtggcaggga agtaatgtaa gttgctttat 420
aactcactgt ctaacaaagt tttgaaaatt tgtctgatat gtaattaggt acttttaggt 480
tattaggttt tcataaaaaa tctgggttagg gctcttgccct gctcccaatg aaagcctttc 540
cacagggcaa atataaaaga gagagtagag ggaawycccc tgaggtttaa atamgtcaaa 600
ccagtaagta atagtgtctaa gtttgtcagt gcctctcttt cttactgtac ttaacatcta 660
aaggggcacc tcatttattt tcaggctaata tatgttcttt atgggggtgac tgtccaatca 720

```


351

ggggaggggt gttnacgggc cagtggggag ataccctttt cntaattnat agc 773

<210> 495

<211> 723

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<400> 495

```
gtcctagtga agaggaaggc ctgtgtagca gaaaggcttt gggcctgaga ggttaaggcc 60
acagctgttg acacctgttt tggtcctgcg accctttact ggtctccgct ggctttgaat 120
cttcctctgg gctctactct ggagaacata agggctgctg tggttgagtc tggctagcac 180
tgtctgtggg tggcagtggt tacacccctc cgttcagttc cttgggggta tttttcagaa 240
atccaaaggc aacccttcgt gcagtgtcga cttttttaag tacagttgat tacccttgcc 300
tgctgggggg cctagscatg ggccagagat ggaggagccc cagtggctga caggscagcc 360
tcactcaggc acgtacctgc tgaccagtca gccactgcca acccatggcc cagccactgt 420
gtgcattagc agggagggtt gtaggscatg gaggaaatga ggagacacca cctagtggag 480
acattggggc cctgytgggg ggatgggtgc tatagstggy tctgctggct ccctcaggcc 540
ctgcttacca agctctggag gaggggagtg ctgcattact gagcaccttc cttgttnttt 600
cctcatagga cactgatgtt actgtcactt tagttatgct aaagtggagg tttcagcctc 660
cagaaggaca gcagagcctt ctagggtcac cttaagaata ggttttagct aggctggggg 720
ttt 723
```

<210> 496

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 496

```
ggtctctaaa tgatgaaaaa agaaatcatt ctcagaagga gaaaagattg tatggggttg 60
gcctctccat atcttagcca attatgttgc tattttcatg gcttcagtta tcaaaacatt 120
actgctgggt agcagggtct tagttctcga cagccttcac agtgcacatc tcttgaagtc 180
acatgagagc tctttggaaa gttgaaatta gaggcattct atatttactg ggkctgaatt 240
tgkccctgac tactmatgga gtagaaaatg acccatthtt cctacattga gtaggctgaa 300
ggaatttgca wttctccact cttgtgaggg ttacacctaa tttattttaa atagaacaag 360
ttcttnatgc ttaggggttaa gcctttanaa atggaaaatc tcgatattca tctctctatc 420
ttgataaaaag tcagccaggc cattt 445
```

352

<210> 497
 <211> 617
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (525)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (603)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (617)
 <223> n equals a,t,g, or c

<400> 497
 gcagggacag cacatgggaa agcccccattgg ctttgtgatc catctgggga tgtgatccat 60
 ttgggtaagg acttgggttt cagggcatga gttggcttcc ttgcaggatg caggtcctta 120
 ggtgggtggc ctctgtctcc agctgtaggg ccctgccagg aagcctctat atgagcctac 180
 ctccctcctg caggaccaga gaggggttgt tatgaacagc ccaggggatt ggttgacta 240
 agcttgtctt gaagcttttg ctggggagtc caggtgcccc tgtctctcac ctgctcccca 300
 tacacatctc tgcacacctg gctgaggcat tcccagacct aacctcagat aatgtgcatg 360
 tgatgaacac tcccaagtgg ctaggcctct tgcacctgag caggtggatt ctgccccagc 420
 actggggctt tctctgggct gtccatcatg ggtatatctc tggattccag gattgctagt 480
 tagcacctca catttgaggg tctgtgctat tcartctara atcanaattg gatgaaaaat 540
 caactttgac accacctttg ggggtggctgs attggcttwa cacctgkaat cttaacactt 600
 tangaagctt aagccan 617

<210> 498
 <211> 1189
 <212> DNA
 <213> Homo sapiens

<400> 498
 actactagag aaaaaccaac tggcagtttg ctaagcatat ctactggtgt tgtttctgcg 60
 ccctcttttg gctaattgat gtaattatac tggctctaaa gatttactgc ccataagta 120
 aatagtatag ccacattctg aacatatcaa aagtacaaac ttaggaggag tgtatgtaca 180
 aaaatgtaaa attttatgaa aatgaacatg tttttatgat gttatttcta gttcataaga 240
 atgtgatgac tgctttgctt catttatgta cgttcccatt atattcttgc tgtcaatcaa 300
 tcacaaaatt atatcagatt aggataaact aagccatttt atgtatttta ttttaaacct 360
 tattttggca gagtaattcc ttagaatttg aaaagctggt actttgaaat taccaattta 420
 ttacaaaaca tagaaatgta ttgkagctac aaagacaacc aagcattttc tgtgttttaa 480
 tgaatatcta aaaaactaca tttagtttat tttactcagt tttgaaatga tttttttact 540
 ggctctattg ctttaaaata actaagagat taatgattct ttgtataatt ttccttttct 600
 ttgttctttt tttaccattt cgcagagtta tatctatagt tttagtaaca atttcttatg 660

353

```

tattctggat aactgaaaac aactaaaggt gttgggcrtt agaaaaataat tgtgagcagt 720
aagattactg atgtaatatg tatgttggac tgaagtattt ctttataaac attctatttg 780
attttaagca aaatgtatgt taaagcatgt ttttacatca gtaaagtcac ttgtcgacct 840
tctggaaatg aaagggtttt acctagatac tgtaagttac acctccttaa caatcatatt 900
tgtcattggt gttttctgca aacaaaaaatg tttatgggct tcatgtaggc ttaagattgt 960
aggcaaaaat ggactgagtt caggaccctt caagcagtag gcattcagtt acagagcagt 1020
tggtactttg taaccagac ttacagttta aaaatatcaa gttagctgat gtttcattat 1080
aataaaaata ctattttgct taagagttgt attacaaata tttgtgctta acattagaaa 1140
tagctgtttt aaattgtagt taacatatta actttttcag aaaaaaaaaa 1189

```

<210> 499

<211> 396

<212> DNA

<213> Homo sapiens

<400> 499

```

attaaatcaa atgatattga catattatga gggagaagaa gtcaatgctg gaaggattgg 60
gctaacgcta gtagtagctg gaatgggtgg ctctattctt tgtggcttat ggctggatta 120
tactaaaaca tacaacttct tcatgactgg ttacctcctt ttgggttttg aatttgctgt 180
tgaaatcact taccctgaat ctgaaggtag ttcactctgt cttcttaatg cttctgcaca 240
gatatttggg attytgttca cattgggtca aggaaagctc acatcakact atggtcctaa 300
ggcagggaac attttwtctt gtgtctggat gtttatasgc atcatattaa cagcattaat 360
caagtctgat ctgagagaca caacataaat atagga 396

```

<210> 500

<211> 1309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<400> 500

```

aaaatgtgcc agttccactt ggtaataacg ttgggaaaat gcagggtttat gaatgatgtg 60
gactttttaga ggatcaaate aataaattgg attttttatt ttttgagggc agctgcmtea 120
ctgtttttaa taaagaatct tacataagaa tgttgacaac attcacagta agccattgsa 180
gaaaattgat ctgcatgtcc tagaccaatg attacaaggt gtctgtgggt ctgtggttta 240
ggggggccag ccnatcattc cttttccctt tggcactcat gagagagatg ccaagttcag 300
tgtggatttt tcttggtgct ctatggagaa atggagtctg tgtgcttact gaagagtccc 360
aaaaascaga gaccattttc atttaytgcc atcataaata ttctccacca ttcaagatgc 420
ctgtgtacac ggctattttg gaaactwaag tgttggagga ggcaggggct gaaggtgtca 480
aaacctcctc agtaggataa cccctttctc ccctttggac catctgccat ctttcagtag 540
tgtttcccat ggtgtttttg catccagagt tgacarcaac tcaattttgc cttgaattta 600
ctcagtctta taaattaaaa atgtgcattt tatataaaga tgcattttat ataaaaatgc 660
acaccttta tctctatatg gcagcatata catatatata tataaaatgc acacttttaa 720
tctctatatg gcagcatttt tgaggcttta tatctgcccg tgtaccctca actgcctcyt 780
ttttgcagag aacgatcccc acaggaactg gtctaagaac actgtctgca catgattgat 840
gcttaaaatc caatatacca ccacatatca aaggktggga ttttcagagt cttctttagat 900
ttctgagctg aaaccttaac aaatagggaa tttggcaggg aagacacctg ggtttttaat 960

```

354

```

tcagaaccct atttatatac tgttaaaatt tgaggtagta tagtttatat aaaagtcgga 1020
tgtaagata ttatatattca gtactaggag cttctttgca gtcattaaca tgacaaatta 1080
agtaataaat ataaaagtga ttgtccataa attatcattg aattttttgt ttattttgta 1140
gtgttctgta tttatctgca ctttgtgtat atatacacac atacatatgc caacatgtaa 1200
ataacctcat gtttattcct aatctaaatt gccmcaatat ttttaatgta tggttacact 1260
gtgttttaaa ttactttaaa aataaacttt gtaagcagaa aaaaaaaaaa 1309

```

<210> 501

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (882)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (892)

<223> n equals a,t,g, or c

<400> 501

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aattcggcan nagggnncaa agcagttaga gttcagaggc cagcgggtca gggccactcc 60
ctccctagcc ttcatacaga gaggaccctc catccccctg cattgctctt ctgtgaaagc 120
aaatactaaa ggatgccatc ctctggaatc ctaatggcag gcaaagggag agaggaaggg 180
tgacggcttc tggcacttag aaaacaaaaa gaacaaaaaa agagaaaccc ccaagcctgg 240
aacgcagaga ggtctttact gctgggatcc acggaaaaca tgtctgtcct agccaagatc 300
atatgaagag tttggcacgg aggctgagaa tgacctggca tagatggttt gccagttagg 360
atgtctcaat ttgagccttt gcttttggtg gataactcag ctccctctt gtaacctgga 420
aagttgggtg cctttatcat cctgctgggt ttatccatgg actgaacacc caacagcagt 480

```

355

```

gcactatgst ttctatggca tctttcattc tcattttata ttgtgctata aaaaggattg 540
tttctccata tatatatatt atatgtgtat atatataata tatatatgtr tatatatatt 600
atatatatat attatatata taatatatat ataaaaatata tatatatatg ctctcctctt 660
tcagcctctt tgtcacaggg aaraagtgtg ggargttgcc ttgggcctgc ctctctccta 720
acctcctctt cccactggg taccctcagc ccctatatatt taattcttga tcatgtarga 780
aattgttttt gggtaaatgt tgatattatt gttattatca ttattaatta aataaagggg 840
aaaagggaat ttttgtttta aatgaggaaa tgtttaacca gnttctgttc tnttttggt 900
tgtggacttg gcaccttttg ttccaaggta tttcctttgg ggcc 944

```

<210> 502

<211> 664

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<400> 502

```

ggcagaggtc agtagggatt taagataggg agaaaatgta gctcagggaa aatgtgtgca 60
gtacaaaaga ccataaaatt tttcagaaag cagcttgcc ctgtgnaagt tgaccagatt 120
gaaagtccca gaatectggg ttccagtnca ctcatgaatg gcttttggtt aattcttcct 180
gtgcttcaat tcttctctt gtgtgaaatg ggtaacacct tatctgcctc cctgagatgt 240
catggaaata agcaaaatta ggtcttaaaa ctacttgga acctaaattg tgaaaattat 300
ctttatctct gttgtttctt agttaccagt ttaccagaag taacttaaca ctaggattct 360
ctgcyagtac taaaattaga ctctaccact ctgggctttc cttttctccc tcttgctttt 420
gttttcgggg cgtggaggag acatctgtgc tgctggagtt aataataaac taaagactaa 480
agaataactt ctcccactag aaaatactat tttcactcta cccacctgat caggctttta 540
aagaaggagc ccaaactctg catggatttt gattatttga ttcactttkg gaaatgtgcc 600
tgaraaarcc tagggaatga gagaagtngg nataaatggg aatcttaaat ggtatagaaa 660
ccaa

```

<210> 503

<211> 602

<212> DNA

356

<213> Homo sapiens

<400> 503

```

ggtttttcgg ggggtggccc aagccagcct cgctctcgk gggggccatg gtgaggctgg 60
agcctgagga ccaagtgtgg gtgcagggtg gtgtgggtga ctacattggc atctatgcc 120
gcatcaagac agacagcacc ttctccggat ttctgggtga ctccgactgg cacagctccc 180
cagtctttgc ttagtgccca ctgcaaagtg agctcatgct ctcactccta gaaggagggt 240
gtgaggctga caaccagggt atccaggagg gctggccccc ctggaatatt gtgaatgact 300
agggagggtg ggtagagcac tctccgtcct gctgctggca aggaatggga acagtggctg 360
tctgcgatca ggtctggcag catggggcag tggttgatt tctgccaag accagaggag 420
tgtgctgtgc tggcaagtgt aagtccccca gttgctctgg tccaggagcc cacgggtggg 480
tgctctcttc ctggtcctct gcttctctgg atcctcccca cccctcctg ctcttggggc 540
cgccctttt ctcagagatc actcaataaa cctaagaacc ctcaaaaaaa aaaaaaaaag 600
gg                                                    602

```

<210> 504

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (541)

<223> n equals a,t,g, or c

<400> 504

```

tcatgactga aaaggagctt tggaaatcac tgcataaggc ttgatttatt tgcacaactt 60
tcttttaggt tgcagctaga acaaacctgt gcgctttgaa atgttacctt ctgctctctg 120
ttccaagta cagagaaata atgttgcaaa tctcacttct gctgaacatt atgcttctg 180
atgcatttag cagacactaa acatttgtca tactctaaac aaagttacaa aggactagaa 240
gaattcttgt tctgtattta gaaaccact cacattactt gatatttggg tatttaagtc 300
atgaaaggta tttcttctag gaagcagtga ttctaaagt tatgcttaac cagtcagttg 360
agtgtctact cttgtgtgtt cacaagtgt ccaargttt kggtaaatta agaattatt 420
ttcaaataaa ttaattcatc cccataggag ccagtttaca gataatccgt tctcntttct 480
ggcaatcata cacaatgaac tcatttccga ataaatataa tanttttct tatttccacc 540
ntggtcc                                                    547

```

<210> 505

<211> 2083

<212> DNA

<213> Homo sapiens

357

<400> 505

```

cgtccgattt actattctta aattataggc agctgtttgg ggaagaagat gctgatcaag 60
aagtatctcc tgacagagct gaccctgaag ctgcctggga accaacggaa gccgaagcca 120
gagctagagc atctaataaa gatggtgaca ttaaactgtat ttctactaag gaatgggcta 180
aatcaactgg atatatgcca gttaaacttt ttaccaagct ttttaaagat gacatcaggt 240
atctgttgac aatggacaaa ctatggcgga aaaggaaacc tccagttccg ttggactggg 300
ctgaagtaca aagtcaagga gaagaaacga atgcatcaga tcaacagaat gaacccagat 360
taggcctgaa agaccagcag gttctagatg taaagagcta tgcacgtctt ttttcaaaga 420
gcatcgagac tttgagagtt catttagcag aaaaggggga tggagctgag ctcatatggg 480
ataaggatga cccatctgca atggattttg tcacctctgc tgcaaacctc aggatgcata 540
ttttcagtat gaatatgaag agtagatttg atatcaaatc aatggcaggg aacattattc 600
ctgctattgc tactactaat gcagtaattg ctgggttgat agtattggaa ggattgaaga 660
ttttatcagg aaaaatagac cagtgcagaa caattttttt gaataaacia ccaaacccaa 720
gaaagaagct tcttgtgctt tgtgcactgg atcctcccaa cccaattgtt tatgtatgtg 780
ccagcaagcc agaggtgact gtgcggctga atgtccataa agtgactgtt ctcaccttac 840
aagacaagat agtgaaagaa aaatttgcta tggtagcacc agatgtccaa attgaagatg 900
ggaaaggaac aatcctaata tcttccgaag agggagagac ggaagctaata aatcacaga 960
agttgtcaga atttggaatt agaaatggca gccggcttca agcagatgac ttcctccagg 1020
actatacttt attgatcaac atccttcata gtgaagacct aggaaaggac gttgaatttg 1080
aagttgttgg tgatgccccg gaaaaagtgg ggcccaaac agctgaagat gctgccaaaa 1140
gcataaccaa tggcagtgat gatggagctc agccctccac ctccacagct caagagcaag 1200
atgacgttct catagttagt tcggatgaag aagattcttc aaataatgcc gacgtcagtg 1260
aagaagagag aagccgcaag aggaaattag atgagaaaga gaatctcagt gcaaagaggt 1320
cacgtataga acagaaggaa gagcttgatg atgtcatagc attagattga acagaaatgc 1380
ctctaaacag aacctcttta ctatttagtt tatctgggca gaaccagatt gttatgtcct 1440
ttgttccaaa gggaaaaaat tgacagcagt gacttgaaaa tgattctgct ccttttgaaa 1500
gcattcattt tgctagaact gttagacaca ttgcagtatg ctgtattgaa agtaggaata 1560
tagtttttaa aaccttttga acaaagtgtg tgcataacca gtcattgagat aaaacaacac 1620
aatgcatggt gcctttttta tgtaaatacc cttaggtatc attaatagtt tcaaaatatt 1680
gtggttttagt aaagttgata cctgggtata aatattatgc ctttattttt ggctagaaga 1740
agaattattt ttagcctaga tctaaccatt ttcataactc taactgattg aaacagattc 1800
aaagaagtat cgagtgtat gcattgaaac ttgtttttta atgttagatg gcactatgta 1860
tattaatgta aaacaatgtt aatttactca agttttcagt ttgtaccgcc tggatgtct 1920
gtgtaagaag ccaattttttg tgtattgtta cagtttcagg ttatttatat tcgatgtttt 1980
gtaaaactca aataacgact atacttatgg accaaataaa tggcatctgc attcttgtaa 2040
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2083

```

<210> 506

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<400> 506

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agcctccctc ttccccatgg aacttacaat caagaagcat cttccaattt catgtacact 60
aaacctaggt ggccacaagc ttcatttggg ccatgaactc ctttgaaacc ctcataanaa 120

```

358

```

ctgtcctact atctccctgg taaatcgcac atacacagag ttttgccttt caggacatat 180
ggccttataa gattttgact actagtgacc aaaatgttga tgtttttcaa aaattacaca 240
gaattgttaa gatggaatag ttttattcag caaacaaaaa acttgctaatt cagagtatc 300
ctctagtcca cgtaatgtgg tttagactac atttgcaaaa ttagggcctt gacgctgaac 360
aaaataaaat ccagaggaag aactacagta tccaatcaaa aaggaagtac tagcaaatga 420
accagaataa aagactttat tgtattccat acattcacag gtcacttcca gatttagtaa 480
caacactgca atgctatgat gctgtgcggt catttagctt aaaccacagt gtaagttggt 540
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ggcaaccaat gcttatttca ttggattatt ttctgactgg gacatgagtt catcgcatct 660
tcccagaatt ttaaagtacc tccccttaca ttataagaga tgaccaaaca ctctagtgtg 720
arggctgctt cacacactgt tcttatctat catgattgct cttccttaca tacacgtccc 780
gtacagatca gctacacacg gcatggtcct gaaaccacag cttttgttcc tttggccaga 840
atgcacccct caccttgagt gcccgcctta gaaacacagg tacttggttc tcacagggtg 900
tgcattggtt acacaagttc atctgcccc a ggtataaagc tcttcaaac ctttgcattg 960
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gcctgttagg ttatggatgc tcacctgact ctctgaagca gagggaggct gacacagatt 1140
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gcaagaagct ttttaatttt tcttttctat aatg 1234

```

<210> 507

<211> 646

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 507

```

gatacaggcg tgagccactg tgccsggcct tcttctttca agttatatag aatggagcat 60
gggggtggca gtggctaggg acatttcttg gggacactct cccctaacc cccagaagga 120
cttcacaaaa acctgtggat aatggaaggg atgttacggg acaaacgtat atttatgtgt 180
gtgtgtgtgt atgtgtgtgc gcgcgcgcgt gtgcacatag gcgtgatgtc tgtgaccctc 240
ctctcctcgt cacatttccc ccagaatgaa tgctgtcctg tctgctcatg tttgtgttga 300
agctgccaaa gtcggggagc tctggctcctg cccagacccc tttggaattg ctggcccatc 360
ctcccactgg agagctgggg tgcagctcac cttggggaag gaaacctcat gcctcagagt 420
aatttcttgt gaatgcaaag cctgggggag cgggtctttg gggggcaagg agccagtcag 480
gggcttgttt cccctcatag agctccccag acgtgcctcc gcaatgcctg aaaccacag 540
ctaggctaatt aaacggttca atttctgtta aaaaaaaaaa aaaaaaaact cgaggggggc 600
cgtacccawt sgcccttng tgggtggttt taaaattcat tgggcc 646

```

<210> 508

<211> 2257

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (838)

359

<223> n equals a,t,g, or c

<400> 508

```

ggatgattag gctgtgtgtg cgkgtgagaa tgatcacatg tggcgtcatg ctttgtacag 60
agcctcagac cactgggcct ygtccagtga gagtcctctc tggcgacatc acacgaggag 120
agccaggggc cacccttagat ctcagatctc tcagagcaat acttttctga actgccactg 180
tgcctgggtg gttgggtttg gtgtcatgct tctgactaga gtagatcgcg catgtccacc 240
agtgatacgt tgagtcctta cagttccccc catggagtc cataagcagc tccatcgaga 300
tctgtcagca agttgcagga ccccaacaatg ttctgacatg ttaagacccc cttacatgac 360
gagtagagag gcagctgagg ccacaaccgt gtcttctctc tgaatggagc taactcgga 420
cccccgttt tctcttcctt tctgcccacc actgaacatt gcctttttaga taactcagt 480
tttcttctag atgtcatagc aatagacttt cactttcatg aagtttgggt acgatttgga 540
ttctcgctta agtacakata tttatcaata tttttataag gcaaagttca yttaaaaaat 600
ctttccaagt agcagtgtgc ctaagatggc aaaatactaa aaactgggtg ttctgtctcc 660
tggtgtgtgt cacttttcaa gccgattgaa atatttctgg styttagggc attactttt 720
aactatctcc tttaaaaacg atgttctgta ggtttagtgt ctttgttcat ttccaaaaga 780
gtccagacaa ctgtgtctgc ccctgcagag gctgtttgtc caaaggcagc atgccgcntt 840
ccaccggaac gcagacagca ggggagcgga attctaaagc agcgacttaa aatgaggaat 900
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tccccttctg ttttccctca ttacttttga cctccttaag acttcagaga gaatgtccgt 1140
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cacttgatt ttgtgtatag gaaatggcag cttccgattt ctagttagat ttgtcttgca 1920
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ggggtgtcta gttcagcttt tatgttgatc catcctgact tatttttagac attgaattta 2040
tctcaccaca agtaaaagaa catgtgtatt gactgtcttt gctaagtttc ctaatttttc 2100
ctaattatgg caattatgga tgtgaataag aatactgatg ctgtacaaat atttttgtgg 2160
aaatgtacct tgtaaatgtg actattttaa taatatgaaa ataagaatac tcttgaagaa 2220
aaaattaaaa tatttactct ttggaaaaaa aaaaaaa 2257

```

<210> 509

<211> 701

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

360

<220>
 <221> misc feature
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (600)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (637)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (647)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (676)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (691)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (700)
 <223> n equals a,t,g, or c

<400> 509
 ccccaaagng ggcccgctg aaagggccct aggnagtaca cctcctagga accctaagcc 60
 agagagaggc ttcactacat catgcttcct gacatctctc ccctttgaag agcagtcaga 120
 ctcttgcttt gctcttcaga cttaatttgg gggtttaaca ggtgagggtg ctgggggaac 180
 tcttttacia catctctctg aaakaatccg ggctgccagt ttcatttggg ttgggtgtca 240
 gtagcatgat ggaaagacaa aaaaacacaa cttgacatct gcagaaatgg gttcaaattt 300
 tacctgcaac tcaccaattc tgtggccttg gttcagcaat taaactccct aaaattcagt 360
 tttttctttg taaaatgggg ttatgaacag tacctacttc aaaatgtgtt tgtgaagatt 420
 aaaaaagtta acataaagag tt taraagag tgtctggcaa aaaaaaaaaa aaaaaaaaaa 480
 aaaagggcgg ccgctctaga ggatccaagc ttacgtacgc gtgcatgcga cgtcatagct 540
 cttctatagt gtcacctaaa ttcaattcac tggccgtcgt tttacaacgt cgtgactggn 600
 aaaaccctgg cgttacccaa ctttaatcgc cttgcancac atccccnttt cgccagctgg 660
 cgtaattag ctgaanaggc cccgcaccgg ntccggccttn c 701

<210> 510

361

<211> 345
<212> DNA
<213> Homo sapiens

<400> 510
cagagtggaga cactgtctta aaaaaaatta aaaattgtaa aaaaatgaaa aaaaaagttt 60
tgagcattat ttgcatcatt gggatacata tgtcacttca caagatgttc aatttgaagg 120
aaataccact cattctctat gtcctgttgt ctgtagtggt cttcagtttt tcatattgag 180
ttgacctaaa tcttggattc atgacaagaa aggagtaagt actactattc attgttctat 240
ttgtttataa tctgtattat aaaattgcac ataattaaaa gctttccctt gtcttcaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 345

<210> 511
<211> 967
<212> DNA
<213> Homo sapiens

<400> 511
gacctgtcac tgcctcccgc cgctcctgc ccgcgccatg acccakycgg tgccccggct 60
ctcctgtccc gccgcgctgg ccctgggctc agccgcactg ggcgcgcctc tcgccactgg 120
cctcttctctg gggaggcggt gccccccatg gcgaggccgg cgagagcagt gcctgcttcc 180
ccccgaggac arccgcctgt ggcagtatct tctgagccgc tccatgcggg agcaccggc 240
gctgcgaagc ctgaggctgc tgaccctgga gcagccgcag ggggattcta tgatgacctg 300
cgagcaggcc cagctcttgg ccaacctggc gcggtcctc caggccaaga aggcgctgga 360
cctgggcacc ttcacgggct actccgccct ggccctggcc ctggcgctgc ccgcgacgg 420
gcgctgtgtg acctgcgagg tggacgcgca gccccggag ctgggacggc ccctgtggag 480
gcaggccgag gcggagcaca agatcgacct ccggtgaag cccgccttgg agaccctgga 540
cgagctgtctg gcggcgggcg aggcggcac cttcgacctg gccgtggtgg atgcccagaa 600
ggagaactgc tccgcctact acgagcgtct cctgcagctg ctgcgacctg gaggcatcct 660
cgccgtcctc agagtcctgt ggcgcgggaa ggtgctgcaa cctccgaaag gggacgtggc 720
ggccgagtggt gtgcgaaacc taaacgaacg catccggcgg gacgtcaggg tctacatcag 780
cctcctgccc ctgggcgatg gactcacctt ggccctcaag atctagggtt ggccccctagt 840
gagtgggctc gagggagggt tgcctgggaa ccccaggaat tgacctgag ttttaaattc 900
gaaaataaag tggggstggg acacacgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagtc 960
gtatcga 967

<210> 512
<211> 532
<212> DNA
<213> Homo sapiens

<400> 512
tactatcggg aaagctggta cgcctgcagg taccgggtccg gaattcccgg gtcgacccac 60
gcgctccggct cccggttcca ggcgagttcg cagctgcgcg ccgggtcctg gaggcggagg 120
ccgtctcccgc ccgttgtccc cgcagtcccc gacgggagcg ccatggccca gccgcgccc 180
gacgtggagg gggacgactg tctccccgcg taccgccacc tcttctgccc ggacctgctg 240
cgggacaaaag tggccttcat cacaggaggc ggctctggga ttgggttccg gattgctgag 300
atcttcatgc ggcacggctg ccatacgggt attgccagta ggagcctgcc gcgagtgctg 360
acggccgcca ggaagctggc tggggccacc ggccggcgct gcctccctct ctctatggac 420
gtccgarcgc ccccgactgt catggccgcc gtggaccagg ctctgaagga gtttggcaga 480
atcgacattc tcatctaactg tgcggccggg aacttccctg gccccgctgg cg 532

362

<210> 513
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (49)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (464)
 <223> n equals a,t,g, or c

<400> 513
 gcaaacagtt cttccattan tgaagcgaga ggaaaagcca taataattnc atcttcaccc 60
 actacccttc cagagctttg cttctcctcc acatttagcc attaaattgc atgaggattt 120
 ctcttcatca gggtcgcgat ggaatctttc ttatatatta ccctttccta catgtagcct 180
 tgaatgtcct ttccacaaat atgctccac ggctgggagc attttctttt cttttcgtca 240
 cctttgattt ttgggattag attaataggg gaaaaagtcc ctggctttaa agaaaacaaa 300
 agtagaattc ttcaaaaata aatttcatac tgggaacaga aaggaactaa atgcttcata 360
 aaacagggaa aaagaaatta agatcatcct agaaataaac taagatwaaa ataagtatac 420
 tgacccttgg ttggtagata aaaagatgac cagtcttgta ttgntttaaa attagataaa 480
 catggrttaa gcatgcaaag actctgktcc ttttt 515

<210> 514
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (467)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (495)
 <223> n equals a,t,g, or c

<400> 514
 tctaacatcc tccctttgct gtyctgaaaa cttcacgtca gagtcatatt taaatgtgta 60
 attactgctc tttctcctgc ttataattca ttatactttt tgaatttgag gcttggtgtt 120
 ttatgaacct tgaaaagccc tctgctgccc gcctctggag ccaccgtctc cctgccctgc 180

363

```

tctctctctt gccgaggtgc ctgttaagct gcattctctc ctccacagct ccccgcttcc 240
tgcaggcttc ctgtctcact ttctttctgt gctccagagt ctaggcaatc tctkttgtta 300
gaacttccaa ttcaccaata ctttcttatg ttgygtctaa taagctacat catctgctca 360
ctgggttttt tatttcagtg attatagttt tcatttccag atattccata tgccttaaaa 420
acatctgcat gatactccat ggttttaact cccctgatga atactgngca ttttaaccatc 480
ccagcacgtg aggggn                                         495

```

<210> 515

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 515

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attacaggca tgagccaccg cgccccgctg aactnatttt tttttaatga agtgcacgt 60
gttcccactt gcacttaaaag ktcacatttg gtgccaggct gtattgcttc ytctcactgg 120
tgagtggcag ctgtgtctcc tttctgccag tccagcagtc ccagctgtca gtggcacctg 180
cataatgaca cgtctgcatt tccccccaat crgcrctgcag cggttttggg aggaggaatg 240
cgactgcatg gcgcgctcgc tgcaacctca gtctgcagcc tgctagggac gcacggccac 300
actcctgtct ttcagcctca gtctgcagcc tgctagggac gcacggccac actcctgtct 360
ttcagcctca gtctgcagcc tgctagggac gcacggccac actcctgtct ttcagcctca 420
gtctgtagcc tgctagggat gcacgg                                         446

```

<210> 516

<211> 1175

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<400> 516

```

aattcggcac gaggtttctc tagaagtaat ttatgttattc aggttatccc ctgagttttt 60
tcttactcac catatgtctg gtggttctca cagccagggg cactgagggg ctctgccctg 120
ggatctggag gccagcactg ttcacctgat ctccaccact gagatacctc tggctagagc 180
cataatcagg tggcccaaag gactgaacaa ggaagaatgg gagggcactc tagactaatt 240
aaggttgtct tttcagtcta aagttaacaa tgacacacat gaattttcat atcagtataa 300
ttagatgcgg gtcccatcta attacagtgg gtcattatgg ctgttcgggtt agagcagctt 360
gggtgtctctg tgaccatggc atgtgcccggt gtcaggacta gacaaagtca tttgcttggg 420
gaagctctct ccccttcagg tgtgaggcca ggagcacctg gtgtgggtcc tgtccctgag 480

```

364

```

gttctgtcct acaccaccct catgcaacac ctactacaca caggtgcaca gcgactgtca 540
caggcgcttc atgtttaagg atgggcctcc gtgtcataaa ctttttttaa gggatatatag 600
rgatagctta tgraatccaa atcaaaggctc cagagtttnc agcaaattgt acctacctat 660
ttgccaactt amctcaccat agaaagccaa aagattcanc ctgtggccag tctttcacat 720
tacagagttt aaagtacttt ttttaaatty ctattttatt tttacaaaaa tatttaacaa 780
aatatagtat atctcatgtg ccagggtacta tttgtaatat ttataaacac tgatttaytt 840
aatcttcaca gagactcatt ttacagattg gaaaacagag gcagagagaa gttaagtaac 900
tttaatgtca ctcagctggg tagtatcaaa gtcttggtg ctggctccag agtctagacc 960
tttaaccact gtgttatgct ttccatgggt aaagcaacct aaaaaggccc ctggaatcag 1020
ttacatgtgg ttggagacta actctgtcat tgacttacta aatgcttgat attgggcaat 1080
ttatctaacc tctctctgca tttagtaagt caatgacaga gttagtctcc aaccactgtg 1140
ttatgctttc catgggtaaa gcaacctaaa aaggc 1175

```

<210> 517

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 517

```

ctaacatttt tttccttttt tttcccccaa aggatataat gtattatcta tcaaccactc 60
tctcagaata acttgtttgt tttatcatgt actgtgatag gttagtcatg aatttgcagt 120
taatgaaggg ctatttatct catgcctacc ctacaggtt ttctttcttt tttctttttt 180
gtgacggagc tcaactcttc accaggctgg agtgcatggg cacgatctca gctcactgca 240
atctccacct ccccagttca agtgattctc ctgcctcagc ctctgagta gctgggactg 300
caagtatgaa ccaccatgac tggctaattg tggttttntt tttngtttgt ttgtttgttt 360
gtttgttttt ttggcagcag gtcgggtgggt gggcagtggt tgtagagaca gggcttcaca 420
ttgtgcccag gctagtctca aactcctgat gtgaagcaat cctctccgct cag 473

```

<210> 518

<211> 1508

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 518

```

catcgaccgg gagctgagcc ctgagggccc aggcaaggag aaggagctgc ctggacagac 60
cctgactggg gggcccaggg ccacagaagc cgcaggctcg ggtctgcagc ccctgaagct 120

```

365

```

ggactaccgc gccctggccg ccgtgcccag cgctggcagc gtgcagaggg taccgtctgg 180
agcagctgga gggaagatgg ctgaatctcc ctgtccccc agtggccagc agccgccctc 240
cccgccttct ccggatgagc tgcccgccaa tgtgaagcag gcctacaggg cyttcgccgc 300
cgtgcccact tctcaccgcg ctgaggatgc ccctgcccag cccccacgc ctgggectgc 360
agcctccccg gaggagctgt ccttcgggga gcggcagaag tactttgagc tggaggtgcg 420
cgtgcccag gccgagggcc cccctaagcg cgtgtccctg gtgggtgctg acgacctgcg 480
gaagatgcag gaggaggaag ccagaaaact acagcagaag agagcgcaga tgctrcggga 540
ggcggcagag gctggggccg aagcgaggct cgccctggac ggggagacgc tgggcgagga 600
ggaacaggag gatgagcagc caccctgggc cagcccagac cccacctcaa ggcagagccc 660
ggcgtccccc ccgcccttg gagggtggcg cccggtgcgg acggccaaag ctgaacggcg 720
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ccctgccgag ctccggggcc tggaggccga gaagcgtgcg ctgtggaggg cagccaggat 840
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ccggggyacg cgggggcccc tggagcgant ggccgaggcc ccttccccctg cgcccacccc 960
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accggacttt gctgaggagt tgaggctccct ggaaccatct cccagccctg gcccgagga 1080
ggaggatgga gaagtggctc tgggtgcttct gggcaggccc tcacccggcg ctgtggggcc 1140
tgaagatgtg gcactgtgca gcagccgcg ccccgtaagg cctgggcgcc gtggcctggg 1200
ccctgtgcc tcctagagga gcaggcacct ccccagact tggggtgggg gccctgccag 1260
ctccagcacc accttgccc caagtctttt aacctgggtg ttagcatttt aaagagacc 1320
cacaggagtt ctggcctgtg actaactaac tgccccaccc cagccgagac ctcggcgaga 1380
ctgtaactag tgatgtttgt acaaccaaag actctatttt gtggtttaag gagaataaag 1440
ttgactacat tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 1500
aaaaaaaaa 1508

```

<210> 519

<211> 592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 519

```

cctcactaag ggancaaaaag ctggagctcc accgcggtgg cggccgctct agaactagt 60
gatcccccg gctgcaggaa ttcggcacga gtatgtttgt ttcggttgaa atttttcctt 120
aagtgtcttg tgatccctgg atttctgtc ataattaagg aaaagaatgc tgactcactg 180
gaccaggca gggcttctct cccagattgc aggttgccct cggggataca cgggtttccc 240
aatgtctaga atgaaaagag attttatatt ggcttgctaa catcaaagat actagtttct 300
ccagatggtt tattcagaac actgttgctt tatttttatt tgtctgagat taaatgtctt 360
cccctttaat taaagggagg tctctgatga agtaggtttg ggaactgcta ccttggtgac 420
agcttgagtc tttcctttag tgaagtgcag cacaattcca cgtgcacggt gaccttctct 480
tgattagggt gccttggaat gtacagaacc taacttgaat atacagcact ggtttcttgg 540
taagragtgt acagtgatct aaacttgcaa accaaaatac agagatgatg gg 592

```

<210> 520

<211> 568

<212> DNA

<213> Homo sapiens

366

<400> 520

```
gctgcagcct cacagactcg ctgagtcgct cctgcagaaa ggggggggaga gagatcgaaa 60
agcaggggag ggggacggca cggccgttta cctgtctgcc tcctcattcg ctctccccc 120
tcgttctgct cactcctggt gtcagcctat ccgccttccc aaaccctccc attcccccg 180
tgtagccccc cccttcaactt tccttctcgt cctctgtggt tctcctctct tctttcttc 240
cttccccctc tagcattgct accttctctc ctacacgcac gcaggcatat aaacgtaggt 300
ttttgatgct cctctgcctg ttgaccccg c tattttcatg tttccaacag gtttttcttc 360
ccccagtccc tcagctgctg ctgctgctca ggaggtcaga tctgccactg atggtaatac 420
cagcaccact cgggccacc tctgccaaga aggagaaagt taaacagcag cagcagtagc 480
agcagtaaca gtagtaacga gagagaagac ttgtmtcca cctcttctc ctsttcact 540
cctcctttac aaccaggga ttcggcat 568
```

<210> 521

<211> 987

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (934)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (968)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

367

<223> n equals a,t,g, or c

<400> 521

```
tcttcactaa gggatcaaag ctggngcnc accgcggtgc gaccgctcta gaactagtgg 60
ntcccccggg ctgcaggaat tcggcacgag tttttttttt ctttgtgaat tgaatgtacg 120
atacaaatgg taggccttca tgtgagccag ttactacatg antcttcatt tcccacagtg 180
gtttgttcat tcatcagcgt taggccttgg cctgggtcca cttttctcct ctccgggcac 240
tgacccacc tttccgtgta tttactgtag gctattaaat atgacatga cccgccttgc 300
attttcattc atcacctgtt tatgccccaa tttaaaggaa gtttgtctca ttttgccaga 360
aaaaaattgt aatagtcggc acgctggatt tgtagggcc gcaaaattgc ggcagtgaaa 420
ctagtttcac ttctaaagcc cttcatttcc cacaaggtta agctctcgaa accccatttg 480
atccttgggt cctatttctga tcctcctttg gaatctgaaa atcgggtctcc atgttgtatg 540
cagattagaa gttgccttgt ttgttactct tccaacacag ggtatcaggg agaaagaggc 600
cttatctgtt cctccatccc ccctgttttg acagactgct aagaattcct caggacttcc 660
tttggttggg gattttactt tccccaaaag ctgatctgat ttctttcagg ggtagacaag 720
cttgtcctag tgstctgstt caggtcttat cagaaggaaa cccagggaat aggaaaaggt 780
aggatgcctt gacttttgtc cctgttgtgg gggacttaaa gtgttttttg ccagaattgt 840
tcaaaagctc cggtttcaaa ctctgtagga gttttcatgg ggaaaaacaa aacaaaacaa 900
aaaaggtggc ttattcgtcc ccggagatgt tgnagtaag gttcttccag cacggccttg 960
gggttttncc caantgggga agccaag 987
```

<210> 522

<211> 1155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<400> 522

```
tagtgtcntn tgntggaacc ggnctcacta tagggaaagc tggtagcct gcaggtaccg 60
gtccggaatt cccgggtcga cccacgcgtc cggccacgcg tccgcccacg cgtccgccca 120
cgcgccgca acaatatcct tatttttaggt gccactagca gatgtaagcg tatacttagt 180
tgccgttaga tgtgacagaa tgagataatt tatgtaaagc agtagagtac ctggcacaaa 240
```

368

```

gcaaacaata aatattattg ttattgttgt tataattgta aaatgaatga cttcaaaaaac 300
atagtcccag tttggagggg ttttgtgatg cagaatatct aagtcataga aatagaagac 360
aggtggaata agtatatgtt cagagttttt agatgtgttg agtagagacg gkaataatgg 420
aagcattaaa tacaaatgaa aatcacacca gatatccctg raattcaagc aaagaaagtt 480
catcatgtat tcttgggcag caagagaaaag gactagggtt atggcaatgt gtggaaaagt 540
tgaggcttgc taagggttga gatctgttgg tagccctggw tcacatgggg tcagcaccag 600
gcagtgscty tgaaagcgga garaggctct ggacttccct tgkgkataac agttcctagt 660
gtccaacaat gaggaaygg tgaagcatgg ttacaaaact gtgacaaaaa tatttacatc 720
tagcactgtt accactcaca tgccaaacat tggctgcaca cgtgcagctt atttgtaatt 780
aacatcaaaa gactagatct gaagccttcc ataaatgaga ggccattcat atggcattcc 840
tggaacaaaa cactgcacag gtaccagcct ctccactcct gaccgggttg gtgctgaaca 900
gtcagggatt gttcttgaac tagacttctg atgcttcttg caatcttctt tcacttttcc 960
ctgaaataca caaaataaac aaatacaata acaaatagta attaaatgac tttcaggata 1020
acatctagtt gttcagactt cacccttcac aggtgtgtgt gtatgtgtgt ttatgtytgt 1080
atattgaagc aatttgaatt tatttactgt atattttctg agtaaaagac tgaaatgaac 1140
tacttggttc agaaa 1155

```

<210> 523

<211> 529

<212> DNA

<213> Homo sapiens

<400> 523

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agttctgctt tttcgtcctc taccagtctg attaatctgt aggettaaca cttccttttt 60
ctttctcctt ggaatgcctc ttgggatatg cattagtggg tcttatgtct tttcttggtc 120
taggtggtgt gtgtgtttgg cttgtttggg gcacttttag aggtccagc tgcacatttc 180
cactcctctc tgtgtgttcc tctctgcac tgctgtttgt gtgtgtacac tttttttctg 240
agcaatcttt ctcttagacc acattgagtt ctttaacagt tttctgttt tcttcttcat 300
taagataatt aataatcata ctactcacat atcatgtttt agaacttctt aagcctttcc 360
ctttccacc ttttggacct cctaactgaa tttcaaagtc tctrttctt agattaaaaa 420
aataaatcca aagataaaag aatgtaatgt cttataagtc gtatcagtg atattttctc 480
tgttattgtt gttagtgtta taataaatcc taagtgcac aaaaaaaaa 529

```

<210> 524

<211> 1981

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 524

```

catgtttgac catggtaata tcttttacta cctggaccat ttaaatttcc taaatgngaa 60
aggtatatat attmctgtaa ctgtagaggg aaaagggaaa gtatttgggt ctaaaaaatg 120
ttagccttcc tcgtaaaagt agcacaagcc cacttatgaa tcaactgaga aaagtgaana 180
acttgagttg gcaaagatgc agagcagcag tgcagatggc aatgaactct ctgaattctc 240
ttttacctta tttagaagaa tgcagagtaa agggaccttc ttggttctgc aggaacttct 300
caagggatga ggagacagaa cccctacttc caagtgtct atttgtatta cccagatgac 360
tgaagcttaa gagaaggcag ggaagtatac aagcagagcc agttctggta caaacaaaga 420

```

369

```

atttgacagg gacaatggaa ggggtcttctt caccactcct taccttctat gtgatggaaa 480
gactagagct tataaaaagta ctcccatctt tttattctcc tgaataccaa aggcaattaa 540
agtcagctac aaatgacttg ccagtggtcat gttttatttt tgttatagat ttttaaatta 600
tttcttcaa gatcagttct tatcccatat aatgcttagc ttccaagaat attctttact 660
ttcttctgtc ttttacagct ctttgcatct tgttagacct aatactcagg ttaaatattc 720
attgcattta taagatcttc tgcaaaaagc ccagaaatgg tccttttcag gtgcctcttc 780
aaagagctga caccttacct tgtgcctttg gcaaaartgtg cagaatagat acatcagttg 840
gtgcataatc gaaaaaaata ggaattttga acactgttct tccttctaca tttatttctc 900
ttcatttttag aatcacactt tttatgttaa accagattat tattattatt attattcaac 960
cagtattaag ttgttaaaac caaggggaatg gggccctaac caaaaagaag tctcaactca 1020
gaaaaataag tccccagtca ggtgggtctt actttcttgt gggttgcaca ttttgtatct 1080
ctctaacatc agcgtattcc tgactttaag caggtgttta tatgtaaaat aaaacctggg 1140
tatcgaaggg aaatgcattc tttttatgga gtattgacct tgatcctcta tgatgtcata 1200
tagagcaact cagggctata cttgctagat tttaaccaag cagtttgaaa tattaatcat 1260
cactctctca tcttctccas tctccattgc caaagtcttt gtcaaaactc caaatttggt 1320
gataaaagat tgtgtttgct atttctattt ataatgcagt ttctccttaa gcctggagtt 1380
ttttgaatga gtgcattgag aaatgagaga atgtgtgaac gaacatttat gaagtatcta 1440
acatgtgcca agcattgtgc ctggcacttt caatcattag aatgttttat gtgattccac 1500
agcattttct gtatragagt agctcacaaac attttaaatg tttccaatat gaatcgtgtt 1560
acaaaattct taattttata tttcatataa attaaagagg aaaaagaaaa ggtttataat 1620
atattttaaa acaatgtgtt actrtataat acaactataa ttgtagttaa taactaaaac 1680
ctcttgaaaa tgtcaaagaa atacttgatt tctgatgcaa ctttgactaa aatatttact 1740
ttagaaaata aaacgttctt attttgctat atcactttaa ttgcataatt aaaaagcagt 1800
gttttataga aatgctgggt attttatatt caaaaagatt ttgtcacata attcatgggt 1860
aaaacttgca gttgtaaatt gtgtctgtct tggtagggc cctattaata gtcccatgct 1920
gttaaatata aagaaaaata tactaaaata ttcaaagttc caaaaaaaa aaaaaaaaaa 1980
a 1981

```

<210> 525

<211> 1570

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1533)

<223> n equals a,t,g, or c

<400> 525

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gcccacgcgt ccggcctcct gagtagctgg gactataggt gcccgccacc actcccggcc 60
aatattttgta ttttttgtgg agacgggggt ttgccatggt ggccaggctg gtctcaaact 120
actgggctca agtgatccac cctcctcagc ctcccaaagt gctgagatta caggcatgag 180
tcaactgcgtc cagcccaacc ctctcttttg atgtgaaagt atcacctttt gtacatttag 240
tccataccca atatctcttt gcctccttta gtgcaaagtt actcactcct acttgtatct 300
aagagaatct ttcctacttt ctgagtgggc actagttttg gagtatatat attgtatgcc 360
atgaactata tttttctgct tatggctttg cctcatttaa ttgccatagc acttacatgg 420
ggcagggtatt cattttcctg cttagcaaact aaggaaactg aatttcagag atgtcaggta 480
acctgcctac ttcacacact aggagttttg atgtttaatt ttgaactaag atctatctgg 540
cttgaaagct ctttgcatca aacaaccttg aacaatatac ttggaacgta ggtgtgtttt 600
tggcacagaa catggcatgt gtgtgaggga ttgaacacag acttgcccag attcaaactt 660
accaatcttc tgtttcatgt gcccagaaga aacagcctgt ttctcagcct caaacccaaa 720

```

370

```

cttctagttg tcttgattgg ttcagcctga ctgtccaact ctgatttata gctgtgattg 780
ggggagctga gattacacag tgtaggcagg cagaagggcc ccaggcctat tgatatgggt 840
gaggacaata ctacgcact cccttcactt actcactctt ccaaggctct ggcttgaacc 900
caatTTTTTT tgagagaata aaccaggctt tttgttctcc acttggcctg actccatttc 960
tggcattcca gccatgtatt tagctgttat cagctttcag atttagasaa agccttgttt 1020
ccaataagct tgtttctctg aagtaattgt taaaatataa ttttcagaaa aagggttaa 1080
catgactcat acaaatataa aaatgaacat gtgctaaaga tttttatttc actcatgtga 1140
tatgaagtaa ccagacagaa gttataacca gtacatatgg aaagtcaaaa agcacaaatt 1200
catatgtagt aaaggaattg gattgcaaat gaaggcaaaa ctgttttttc tacagggtgg 1260
agggagata atcaaaatgc tagaaccaga atttscatgc ctgtcactta gcttcaattt 1320
acaaaagccc agaataactc aaaggcaaat tctagccctg caaatatcag ccctaaagct 1380
gtgctgtggc cagtgcatag ttttctattg aagtacaatt tttcccca atacattatc 1440
tctcagaggg agtccaaatt gcttcccttt cactcagcag atctgttcag tcaacagatg 1500
ttaaatagct acagcgtatc aggacaaaat aanttcttta taaaataaag taacaaacta 1560
tatgttgttt 1570

```

<210> 526

<211> 1084

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 526

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caatTTTctag taggaagaga ataattacat ttgcnggggg ggggtggataa aaacatgtct 60
gcttctcatt taaataagag agaaatgatg ccgtttttta aatgtgaagc agactataat 120
tctcagctct cttttcttct tagccttaaa ttaatatctt ctttcttcta gttttggaaa 180
gtgtagtggg aatattcaga caaaagaggc cttttccat ttttaaagct tcttactgg 240
gaaacagccc agttgtagta ggtgccagtc agtcaaggca ggggcctctc tccgtcaata 300
tggaaaactc agcagttttc ctctccccc gttgtgttct tgtaacgttg ttaatgggtt 360
cctttgcttt ttgctttctc cttttctgaa aatgtatgtg ttttgctct cttttggcta 420
catcttcaaa atatttcttt tgtgcctatg tacatgtgta aacatgccat agcatgtgtg 480
gtaggtgtcc tgtattttgt ttgggaaaaa aactatcaaa atgaggaaga gaatttcccc 540
tatttatgca ctaggtttct gtgctttttc tttgagttct ctggagtaga tattaatttg 600
ataccttcat ggtaatgaaa ttatgatgga gctgtgttat aaattcctta tgtcagaggc 660
cagtgcggta gcctttgtcc cttcatgcct ttcaattctg agtgggagga aaagcaaaaca 720
tcaaaacagt gcttcagcca aattccatat gtaatgccat tgggagagta ttgactaaaa 780
tatcattcgt cagggaaata tagttgtaat atttttacag gatattccta ggtaaatgaa 840
ggagccttca gttgtaaatt tcaattaccc caaaatgtat ttgctacatt ttgttgtttg 900
aagtattacc tcttaacctt ctttgtaaat ttttttcatt ttgtcttata tagtccagtt 960
ttccaagata agctcagtc tttttcaaat gtcmtctttt taccaatact ttttcattaa 1020
attatgaaaa ctgctaaaaa aaaaaaaaaa acaaaaacca agtacctgcc cgggcgggacg 1080
ctcg 1084

```

<210> 527

<211> 1506

<212> DNA

<213> Homo sapiens

371

<220>
<221> misc feature
<222> (1491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1502)
<223> n equals a,t,g, or c

<400> 527
tatagaaggt agcctgcagg taccggttcc gaattcccgg gtcgaccac gcgtccgact 60
aaaggcagca agggattgta aactaatctt acatagtcaa tgtttcatag aatgctttgg 120
ttacaatcag gttttttaa gacttttaaag gttttttgta tgctataata tatgcttatg 180
attttctaaaa attatgcagt atacacaaaag ggcataaagt caaaaagtgt gtctccctct 240
gtgactttat tctcataccc cagaggtata taatttcttg tattcttctg tagtctttaa 300
gaaatgttat cgtttatatt atatatggct ctctctctgt atgcctcttc ctgttcttat 360
tttaaagtgt caagtttctg acttggttct tgtttaactt ggttctctt ccatattgcc 420
accttccagc tctaacatta atgtctccag gattccatta tatggatgtc cctttggaga 480
acatttgttt atagactttt ctactaaaaa tattgttata atgataatat ccttatgcat 540
atatgaagat tactcttgat tctgcctgac tggaaacttt attaataaag tagacattat 600
tctattttga ggctcaccag ctgtgtaggt atgatcttgt gcttccattt aagaaattct 660
tccattttaa gaagaaaaaa aatctctcta attgactatc tgaagatata tgaaaaagcc 720
tatgctttta aattaaactg ttaagacagt ccattgaaag attgtggaag ttcacatcta 780
ttttgcacct taatttttct attgtcccta ctcatgactc taaaaagtgc atggcttggg 840
gctatacttt gttttgcagt ttgttggtat cgtgcctttc cttatctaca ttagctttaga 900
ctatacctta tttttaagaa gagaaagtgg aaattaactg tggcaaaacc tattttggca 960
caaccacatt tgttcattat acaaaattag cttcctatgc tttagaaaaa atgtgagtta 1020
ttactctgaa agttgtgatt ctgattcctc atgggttggg gctcagaaat ttcttaacat 1080
gtctttgctg ttagtcaagc acaggatttg ttttctgcaa agttttattt tcaatgaaga 1140
atacttgtcc taatagctca taaaaagtac ctttgcactt taaatcctag gaatagggaa 1200
caaggaaact tactgggaag ttcaaaaagaa agaataacag gaccttctag tcagcagggc 1260
atgtttggaa aatgttaata cgccatgatt tttgaagacc aatttttagtt caggaggtgg 1320
ttttaaatat tggatgaaaa cttacaggct gttttcaata ttcatttctg aaatacttta 1380
gtatgataga taaatttggg taagttcttg ttcattgtga aatactgttg gaagaatttt 1440
tttcaaaata aagacttctg aatttgtgta ccaaaaaaaa aaaaaaacc ncgggggggg 1500
gncccg 1506

<210> 528
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature

372

<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<400> 528

```

ctgcactaca cacgtgttgg tacctattag caaactgcgc tgctctaacc tgccacctat 60
ccctttgccc caacacaact acggttgcca cegtgccac aacaattcca actgtaacac 120
tggttaattgc gtactctgcc acaaatagcc cttgcgggag caccagcatg ctgggcctgc 180
ttgcgttgcc gtctatgtcc acatatatgg cggcgagcgc ctacacaaca nctcttttaa 240
ccttcacgtt ggtgggtaca ttaaacttgg ccatcgtacg cttactcagc agcaacagac 300
ttacctgcaa caacntccan t                                     321

```

<210> 529

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<400> 529

```

gtgggattgc aggcacccac catcatgccc tgctaaattht tgtacttttg tagagatgga 60
gtttcaccat gttgggtcagg ctgggtcttga actgctgacc tcaggtgatc tgcccacctt 120
ggcctcccaa agtgctggga ttacaggtgt gagccaccat gcctggactc nttgttggtg 180
ttgtttttta ttagttagga gctacaagaa cacatttata aaaattaaga ggaaacagcc 240
cactgcatt tgagaagggt accatttcct tcgaagttcc tgctgttgcc ctttcctggt 300
gggggagaca ctgtcctgtt tcagtcattc cgttgctttg ctttatagtt ttattaatgt 360
gtttgtgttg gctttgcatg ttttcaaata tatgaatgaa atcatgcaga gtttattctt 420
ttacagtttg ctttttcaact tgattatgtt cctgagatgt atccggatta ttgtgtgtag 480
ctgtatggca ttccttttcc ctgctgccta gtgatccatt gaaaatacaa taattgattt 540
ttctatgttg ttccactggt catttttctg cccctgtgcc ctttggaat catctcctaa 600
actctagtct cgcccttgc tcttccatgt aaccttgaga atcagcttgt caaattcccc 660
ccaaaaaccc cttgagatgt agaatgkaac ccagctgaat ctatagrtca gtctggataa 720
aatcagcacc tgtgtaaaat tgaattttcc cattcatgag cagggtttat ttctgcactc 780
aatgttttca ataaagttgt gtaccttttc ccat                                     814

```

<210> 530

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

373

<220>
<221> misc feature
<222> (273)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<400> 530
ggactgagct cggcgccctct agtgtagatg gggtttttaat tttcccagct gaacgtcggt 60
atattggattg tgatttcttt ggtgwttcaa tggactgtag atgaaggagg acctgttttc 120
tctcaggagt gtctgtgggg tctcttgctc tggtttgctc agtgaagtgt ggccccaagg 180
gctgagggag gtggccagga ccccgaggg tggccccac cacagaggct gctgtcctac 240
gggttcttct ccantttctg ggaccttgcc gangagcctc tgggagggng aaatggccac 300
aggcctggag aatcgacacc cgggtgg 326

<210> 531
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (521)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

<400> 531
gggcctggtg ggcccgtgc tgggtgtgcag ggctgggtgcc ttgggtgcag atggcaagca 60
gaaaggggtg gataaagaat tctttcttct cttcactgtg ttggatgaga acaagagctg 120
gtacagcaat gccaatcaag cagctgctat gttggatttc cgactgcttt cagaggatat 180
tgagggcttc caagactcca atcggatgca tgccattaat gggtttctgt tctctaacct 240
gcccaggctg gacatgtgca agggtgacac agtggcctgg cacctgctcg gcctgggcac 300
agagactgat gtgcatggag tcatgttcca gggcaacact gtgcagcttc agggcatgag 360

374

```

gaaggggtgca gctatgctct ttcctcatatc ctttgtcatg gccatcatgc agcctgacaa 420
ccttggggaca tttgagattt attgccaggc aggcaagcca tcgagaacan ggatgaaggc 480
aatctataat ggctccaatg ncctggggcac caagccaccc ntggcaacgc ttccaacttg 540
caagaatcta ctatttcatg gcan 564

```

<210> 532

<211> 616

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (616)

<223> n equals a,t,g, or c

<400> 532

```

gttccaggaa ccagcaaaca agaggctgct cccgcaggag gcagtgtgaa tggagaaaga 60
aggctgcagt aggggctgct gctggactcg gtggggagca ggtgcaagga gctctggctc 120
ccccatggac ctgagctgga gagcagagng cagctccagc ccattcctca ttcttccagg 180
gcacagtcct caggatgttt cggggagaat aggagccaga acctgagccc ctaagccatt 240
cccctcacca atgatggggg cccagtgag tcatctgctg gccggcttct gtgtgtgggt 300
cgtcttgggc tgggtagggg gctcagtcct aacctgggcc ctgctgagca ggagcagaac 360
cattacctgg ccagctgtt tggcctgtac ggcgagaatg ggacgctgac tgcagggggc 420
ttggcgcggc ttctccacag cctggggcta ggccagattc aggggcttcg cctgggacag 480
catgggcctc tgactggacg ggctgcatcc ccagctgcag acaattccac acacaggcca 540
cagaaccctg agctgagtggt ggatgtctgg gcagggatgc ctctgggtcc ctcaggggtg 600
ggtgacctgg aanaan 616

```

<210> 533

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (644)

<223> n equals a,t,g, or c

<400> 533

```

ggccagcatg gatcctgaca gtgatcaacc tctgaacagc ctgatgtca aaccctgcg 60
caaaccccgat atccccatca tcatagcact actgagcctg gcgagtatca tcattgtggt 120

```


375

```
tgtcctcacc aaggtgattc tggataaata ctacttcctc tgcgggcagc ctctccactt 180
catcccaggg aagcagctgt gtgacggaga gctggactgt cccttggggg aggacgagga 240
gcactgtgtc aagagcttcc ccgaaggggc tgyagtggca gtccgsetct ccaaggaccg 300
atccacactg caggtgctgg actcggccac agggaaactgg ttctctgcct gtttcgacaa 360
cttcacagaa gctctcgtct agacagcctg taggcagatg ggctacagca gcaaaccac 420
tttcagagct gtggagattg gcccagacca ggatctggat gttgttgaaa tcacagaaaa 480
cagccaggag cttcgcattg ggaactcaag tgggccctgt ctctcaggct ccctgggtctc 540
cctgcactgt cttgcctgtg ggaagagcct gaagaccccc cgtgtggtgk ktgggggagga 600
ggcytctgtg gattcttggc cttggcargt cagcatccag tacnacaaa 649
```

<210> 534

<211> 723

<212> DNA

<213> Homo sapiens

<400> 534

```
tcctctaaca cattcagact acaagtccag acccaggaga gcaaggccca gaaagagctg 60
gaaaggcagc tcatcatgca gagtgaatg agggaaagac aaatggccat gcagattgctg 120
tgggtctcggg aatttcctcaa atatttttga actttttttg gccttgcagc catctcttta 180
acagctggag cgattaaaaa aaagaagcca gccttcctgg tcccgattgt tccattaagc 240
tttatcctca cctaccagta tgacttgggc tatggaaccc ttttagaaag aatgaaaggt 300
gaagctgagg acatactgga aacagaaaag agtaaattgc agctgccaag aggaatgac 360
acttttgaaa gcattgaaaa agccagaaaag gaacagagta gattcttcat agacaaatga 420
aatcatgctt accaatcaaa tctcaaagca cagaattatt gacttgaatc atggttttta 480
cagtttttta aatgctcaag attttgatat tatagatttt attttaaaat attaaaatgc 540
aagatagttt tgagctattt taaaataaaa ttataacat tcaacacaaa atcatggagg 600
tgctctaaat aactttttaga ttctctctct ctgtgtgcat taccaatatc taagtgtaaa 660
attaataaat tgttttgaat tcctggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaa 723
```

<210> 535

<211> 796

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (742)

<223> n equals a,t,g, or c

<400> 535

```
gattggaagg cgtgtttccg gctggactga aatcctgtga ggaagattcg cgccctcccc 60
gccccctgcc ctccctggga atcctctgaa gatgcgggccc cctgtccttc gtgaaccggg 120
agccccgggc tcggccccgg cccagcccct tccggggggc gaccggggct gggacttcgg 180
gggtcctagc ctgagcccg ctcggggagaa caggccccggc cgctgtgggg aggggcccgcg 240
cgctatcctc gccggggggc ctgggaggcg aacacgtgcc cgccgcccc gacctgcgcg 300
aacttcgtcg cgccartctt ccggcaaagg gtctcttttt ttagtttag gtaaaataaa 360
atctcccaga gaaaacaaa cggggaagg agccccctt ctgtgaaacg catgccatct 420
tctccatttg tcagtttgat gctgtaacgt acatgggggt ttgcaagagc ttcaaaactg 480
tctgcagacg tcaatttcgc ccctccccct gtgagaactc gctacgtarc cagcaactgt 540
gtagtgtctac aaatgatgaa aacgatcaga aatgcgatta ggtgtcgggg aaaaaagggt 600
```

376

```

ttccccctgkt tttaacttgk atttttactt taattggtac aatcttgata ttcttaacgt 660
gactttttttg ggaaaccacc aagtgccttt taagcaagga gttactggta tttatgccct 720
taatattcct tcattatagg cntattgaat acgttaatat ctcagtaagt gtatttgaat 780
tataattgac tggctt                                     796

```

```

<210> 536
<211> 1135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1107)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1123)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1129)
<223> n equals a,t,g, or c

```

```

<400> 536
cggacggtgg gncgncgaca caatgggcca yggagttccc gttcgatgtg gacgcgctgt 60
tcccggagcg gatcacggtg ctggaccagc acctgaggcc cccagcccgc cgacccggaa 120
ccacaacgcc ggcccgtgtt gatctacagc agcaaattat gaccattata gatgaactgg 180
gcaaggcttc tgccaaggcc cagaatcttt ccgctcctat cactagtgca tcaaggatgc 240
agagtaaccg ccatgttggt tatattctca aagacagttc agcccgaccg gctggaaaag 300
gagccattat tggtttcac aaagttggat acaagaagct ctttgtactg gatgatcggtg 360
aggctcataa tgaggtagaa ccactttgca tccctggactt ttacatccat gagtctgtgc 420
aacgccatgg ccatgggcca gaactcttcc agtatatgtt gcagaaggag cgagtggaaac 480
cgcaccaact ggcaattgac cgacctcac agaagctgct gaaattcctg aataagcact 540
acaatctgga gaccacagtc ccacaggtga acaactttgt gatctttgaa ggcttctttg 600
cccatcaaca tcggccccct gtcctctctc tgaggggcaac tcgacactct cgtgctgctg 660
cagtcgatcc cagccccgct gtcctcagca ggaagctgcc acccaagaga gcagagggag 720
acatyaagcc atactcctct agtgaccgrk aatttctgaa ggtagctgtg gagcctcctt 780
ggccccataa cagggccccct cgccgcgcca cacctccagc ccacccaccc ccccgctcca 840
gcagcctggg aaactcacca gaacgaggtc ccctccgccc ctttgtgcca gagcaggagc 900

```

377

```

tgctgcgttc cttgcgcctc tgccccccac accctaccgc cgccttctg ttggctgctg 960
accctggggg cagcccagct caacgtcgtc gcaccagctc ccttccccgc tctgaggaga 1020
gtcgatactt aacagcttac ccttctccct gccctggggg agacctgggg gtggggcagg 1080
ggaaccctt ttcttgagga acctttttagg acccattttt ttn cattng cattc 1135

```

<210> 537

<211> 1234

<212> DNA

<213> Homo sapiens

<400> 537

```

gactagtctt agatcgcgag cggccccctt tttttttttt tttttttttt tgttttttgg 60
ctctttcaaa ggtaatggcc catcgatgag cttttttaac atactccata gtcttttctt 120
gtggtgttag gtctttatatt ttattttttt cctggggggt ggggtggggg tttgtcatgg 180
gggaactgcc ctttaaattt taagtgcacac tacagaaaaa caaaaaagg tgatgggttg 240
tgttatgctt gtattgaatg ctgtcttgac atctcttgcc ttgtctccg gtatgttcta 300
aagctgtgtc tgagatctgg atctgccccat cactttgggt agtgacaggg ctaattaatt 360
tgctttatac attttctttt actttccttt tttcctttct ggaggcatca catgctgggtg 420
ctgtgtcttt atgaatgttt taaccatttt catggtggaa gaattttata tttatgcagt 480
tgtacaattt tatttttttt tgcaagaaaa agtgtaatgt atgaaataaa ccaaagtcac 540
ttgtttgaaa ataaatcttt attttgaact ttataaaaag caatgcagta ccccatagac 600
tggtgttaaa tggtgtctac agtgcaaaat ccatgttcta acatatgtaa taattgccag 660
gagtacagtg ctcttggtga tcttgatttc agtcagggtt aaacaacgga caataaaaga 720
atgaacacat tcctcgtgtg tgattcactc ttgtctaaat gtcccaacct gtgacttctt 780
tactttccac accactaatt atccaagatc ttgaagaagt attgaacctc taataggcca 840
tcctctggca gatcagtaca gtgaacagca ttctggatct tagttttacc aaagattgct 900
ctgagagttc cagggcgtaa atgccgggca atttcaggat cagcagggtc acaaaattct 960
cgaaatgtct ttgtagcatt attctgttga atctccattg ctacacaagg gccagaatac 1020
atctctgtca ccatgtcatg atattcggtc actactcctt tataaacttc atagaattcc 1080
tcaacattaa cccgatccat attgaacatc tgcatactg agatttcaaa acctgcatct 1140
cggatagcca tcaggatctt tcccaacagt ccttcactga cagcatgggg tttacaatg 1200
caacaggtag aattagtaaa tttagcagtg tttc 1234

```

<210> 538

<211> 1539

<212> DNA

<213> Homo sapiens

<400> 538

```

gcaaaatgtg attatgtttg ttggattgca agggagtggg maaacaacaa catgttcaaa 60
gctagcatat tattaccaga ggaaagggtg gaagacctgt ttaatatgtg cagacacatt 120
cagagcaggg gcttttgacc aactaaaaca gaatgtacc aaagcaagaa ttccatttta 180
tggaagctat acagaaatgg atcctgtcat cattgcttct gaaggagtag agaaatttaa 240
aaatgaaaaa tttgaaatta ttattgttga tacaagtggc cgccacaaac aagaagactc 300
tttgtttgaa gaaatgcttc aagttgctaa tgctatacaa cctgataaca ttgtttatgt 360
gatggatgcc tccattgggc aggcttggtg agcccagggt aaggctttta aagataaagt 420
agatgtagcc tcagtaatat tgacaaaact tgatggccat gcaaaaggag gtggtgcact 480
cagtgcagtc gctgccacaa aaagtcctgat ttttttcatt ggtacagggg aacatataga 540
tgactttgaa cttttcaaaa cacagccttt tattagcaaa cttcttggtg tgggcgacat 600
tgaaggactg atagataaag tcaacgagtt gaagttggat gacaatgaag cacttataga 660
gaagttgaaa catggtcagt ttacgttgcg agacatgtat gagcaatttc aaaatatcat 720

```

378

```

gaaaatgggc cccttcagtc agatcttggg gatgatccct ggttttggga cagattttat 780
gagcaaagga aatgaacagg agtcaatggc aaggctaaag aaattaatga caataatgga 840
tagtatgaat gatcaagaac tagacagtac ggatggtgcc aaagttttta gtaaacaacc 900
aggaagaatc caaagagtag caagaggatc ggggtgtatca acaagagatg ttcaagaact 960
tttgacacaa tataccaagt ttgcacagat ggtaaaaaag atgggaggta tcaaaggact 1020
tttcaaaggt ggcgacatgt ctaagaatgt gagccagtca cagatggcaa aattgaacca 1080
acaaatggcc aaaatgatgg atcctagggt tcttcacac atgggtggta tggcaggact 1140
tcagtcaatg atgaggcagt ttcaacaggg tgctgctggc aacatgaaag gcgatgatggg 1200
attcaataat atgtaaagaa aatgccttaa tataaactga ctcaagttaa tacctaattt 1260
gctgagacct cagcgtttcc cttctttttg cgaattgggg agaaagtgt tttttcttgc 1320
ttatcatgca ctctttccct tttttctcgc ccgcttttcc cctccttttc tttttccttc 1380
cttcttttcc ccttttaata taaggggagaa atacatggtt tttgtggaaa tcattatatg 1440
tttgcttttag attttcttct gttttcacca tcataacact taagttaaata catgatgtaa 1500
aatttttagta cctcggccgc gaccacgcta agccgaatt 1539

```

<210> 539

<211> 788

<212> DNA

<213> Homo sapiens

<400> 539

```

gagtctcata tccttgact tcagtttttt tgtgtgtgaa tactatccct ataccactac 60
ccctaaaacc tcagaattat ttgctttatt ttttcataca acttggggaa gggaaccatg 120
ggagtatgca catgggatca taatccattc tgtggtttgg aaaaagaaaa tgtaaacctc 180
tgcttttagag ggtagctact agctttgttg gggataaaaag tgtaatacat gcacttttga 240
actctgaaag tttgccaatc tgaaaagggg tgtttctgaa gaccactatc ttttacgaac 300
acttaaaaat aagtgtttgc agttgtgtat gggcacgata ctgtattctt tacattttta 360
tggccctaca gctacttctt atccctgcaa gtatataaat taaaaccaag tcactttaga 420
acagctttga aactagagtt tcaaaggtaa aaggatctca tgtttctgaa tctgcgtaaa 480
gcaagatggc tgtgatttga caggtttaat tgctagkttt tatagggtga tagaaatgaa 540
tagtttggag tctttaaaat gttttaaaaa atgtttgctt actatctata tatatgacat 600
tattcccaat tagttttata tctccaagat atatatatgt atataggtat atacacatat 660
gtatatatac atagtctata tattctatat aagaatatat tccaataaga atatattcca 720
tacgggaata tattagtcac tgatgtattt tgccggtaaa attaaaagat attttaacaa 780
aaaaaaaaa 788

```

<210> 540

<211> 874

<212> DNA

<213> Homo sapiens

<400> 540

```

ccacgcgtcc ggcggacgct gggcggacgc gtgggaaaaa agctgcgagg aaattgactt 60
agacaaacac aagagcatcc aaagaaagaa aacagagggt gaaatagaaa ccgtacatgt 120
cagtacagaa aagcttaaga atcgaaagga gaaaaaaagc cgagatgtag tctctaagaa 180
agaggaacgt aagcgtacaa aaaagaaaaa ggaacaaggc caagaaagga cagaggagga 240
aatgcttttg gaccagtcta ttcttggatt ttgaagcttt caaagtgtgt tctcccaaag 300
ttaaattgaa aaaatagggt agagcttggg tttatgatat ccgtgttcat accacttttc 360
ttatgtgaat aggttcttta acttctaaca aaggcctagt aaacaaagtg tttagcatgc 420
ttgctctcca acacagaaat tgcttttccct cattttctaa aagcattatt acattttttg 480
aacatatagt gtaatttccct ttaatgaaag tgactctgct tttattcatc aaattgcttt 540

```

379

```

gatggtggaa atatcttctg ttgggaggtt atttatttta aattggagga ttaatgacct 600
ttgcacaatc tgcttcttga ttgggtttgt tatagttttg agttgggtat tttatgttca 660
ttgggttttc tctgtgaagc aatttttttc tcctttatta gatctaactt gcagtgtatt 720
ttctaggctg gaaagtggaa aatgaaatat attatratct taggttacat aaagtttcta 780
aagtttcaaa gagtcttgat acaaaatcag tttatattct gaaaatattt ataataaagt 840
attctaattt ctaaaaaaaaa aaaaaaaaaa aaaa 874

```

<210> 541

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 541

```

tggcggtctt cttcacccgc aacccgagag acgaccncc gggcccgccc cgcggaagcc 60
gccggttgcc aggccaagga gtggactagg gtcgccgggg aagcggtttg ggagagccca 120
tgggtgactgc gtgagtggag ccagactgtg tggatgcccc agcatggatg actacatggt 180
cctgagaatg attggggagg gctcsttcgg cagagctctt ttggttcarg atgaaagcag 240
taatcagatg tttgccatga aagaaataag gcttcccaag tctttctcta atacacagaa 300
ttctaggaag gaggtgttct ttttagccaa aatgaaacac cctaattatt ktgccttcaa 360
agaatcattt gaagctgmag gacacttgta tattgtgatg gaatactgtg atggasggga 420
tctaattgaa aagattaaac agcagaaaag gaaagttatt tcctgaagac atgatactta 480
atggtttacc caaatgtgcc ttggagtwaa atcacattya cawgaaacgt gtgctnccca 540
agagatttt 549

```

<210> 542

<211> 467

<212> DNA

<213> Homo sapiens

<400> 542

```

ggccagccct ggggcgcctt aaaaaccgga gctggcgctt ggcakcgcca ctctgggcag 60
gatccaacgt cgctccagct gctcttgacg actccacaga taccgccgaag ccattggcaag 120
caagggcttg caggacctga agcaacaggt ggaggggacc gccaggaag ccgccatgga 180
ccagctggcc aagaccaccc aggaaacat cgacaagact gctaaccagg cctctgacac 240
cttctctggg atygggaaaa aattcggcct cctgaaatga cagcaggagg acttgggtcg 300
gcctcctgaa atgayagcag ggagacttgg gtgaccccc ttccaggcgc catctagcac 360
agcctggccc tgatctccgg gcagccacca cctcctcggt ctgccccctc attaaaattc 420
acgttcccaa aaaaaaaaaa aaaaaaaaaa aaaaaaagtc gtatcga 467

```

<210> 543

<211> 1211

380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1190)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1193)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1194)

<223> n equals a,t,g, or c

<400> 543

```
gtgaaaaaag acactctgac agaagaggag actcagtttt atatagcaga aacagtatta 60
gccatagact ctattcacca acttggattc atccacagag acatcaaacc agacaacctt 120
cttttggaca gcaagggcca tgtgaaactt tctgactttg gtctttgcac aggactgaaa 180
aaagcacata ggacagaatt ttataggaat ctgaaccaca gcctccccag tgatttcact 240
ttccagaaca tgaattccaa aaggaaaagca gaaacctgga aaagaaatag acgtcagcta 300
gccttctcca cagtaggcac tcctgactac attgctcctg aggtgttcat gcagaccggg 360
tacaacaagc tctgtgattg gtggtcgctt ggggtgatca tgtatgagat gctcatcggc 420
taccacacctt tctgttytga gacctctcaa gagacatata agaaggtgat gaactggaaa 480
gaaactttga cttttcctcc agaagttccc atctctgaga aagccaagga tctaattttg 540
aggttctgct gtgaatggga acatagaatt ggagctcctg gagttgagga aataaaaagt 600
aactcttttt ttgaaggcgt tgactgggaa catatcagag agagacctgc tgcaatatct 660
attgaaatca aaagcmttga tgataacctca aacttcgatg agtttccaga atctgatatt 720
cttaagccaa cagatgcctt cctgggggat actcctcccc accctaaagg gtcgcctgca 780
acttaggcgg attgggtctc tctgctgtgg cgttctctct tgagagaccc tctgaatttt 840
agcacaaaag gccttctggt tcacagctgc caccaccttt agaggaattt cgtcagaaaa 900
atgtggaggc tccatattaa tgcattattt tttaaaaagt tttgataact cttaaagcat 960
catttgcacc tatgtgggaa ctttgcctgt tgcaaagtat tgtggccgag ctgcagctgg 1020
gagcctgctt tctgccagtc ttgaggttct gaagatcagc tttgaaagga aagtatgtcc 1080
tagcttagcc attcagaaga gaaaaatggr atatcagagt tacagttgtc agtgaaacta 1140
ctttggattt taaccnctag aggangaaaa aggttaggrg gcactctgtn agnntggggt 1200
gcttagctta t 1211
```

381

<210> 544
<211> 1463
<212> DNA
<213> Homo sapiens

<400> 544
tttcgagctc tgcaccgagg agctgccctg gacttgagtc ccttgcatcg gagtcccat 60
ccctcccgcc aagccatatt ctggtggatg agcttcagtg cctaccagac agcctttatc 120
tgccttgggc tcctggtgca gcagatcatc ttcttcctgg gaaccacggc cctggccttc 180
ctggtgctca tgcctgtgct ccatggcagg aacctcctgc tcttccttc cctggagtc 240
tcgtggccct tctggctgac tttggccctg gctgtgatcc tgcagaacat ggcagcccat 300
tgggtcttcc tggagactca tgatggacac ccacagctga ccaaccggcg agtgctctat 360
gcagccacct ttcttctctt cccctcaat gtgctggtgg gtgccatggt ggccacctgg 420
cgagtgtccc tctctgccct ctacaacgcc atccaccttg gccagatgga cctcagcctg 480
ctgccaccga gagccgcaat ctgcaccccg gctactacac gtaccgaaac ttcttgaaga 540
ttgaagtcag ccagtcgcat ccagccatga cagccttctg ctccctgctc ctgcaagcgc 600
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<210> 545
<211> 536
<212> DNA
<213> Homo sapiens

<400> 545
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gcttatgcaa tggcggaagc gtttatgtca acaggagttg gagcttctct taccctaatt 180
gcattaaaag taggaattac tgctaaaact gttgcagtta taggagctat tgtcacatca 240
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ttatggctaa atcatatagt tggcggaat attttattga caacagcagc tattgcagga 360
ggagcatgtt ttggagataa tataggactt atttcagata ctacaatagt aagttctggt 420
atccaaaaag ttgaagttgt aagaagaatt agacaccaag gtgtatggtc agcattagtt 480
ttattatcag gaataatagt atttgcattt gttggattta catggattta ccttcc 536

<210> 546
<211> 588
<212> DNA

382

<213> Homo sapiens

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<400> 546

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agtttttctt gaaatcattg taatgttaac tttgttgttt caaatatctt ggtgattgct 180
tcattatctc ttcaacaaaa aaaaccttta attttgccat tgaaactgta gaactatgcc 240
atgcttttat tagaagcagt gctctgtgtt aacaacaaga atgggtgtaat tagaattggg 300
atgtggatat ttactgtatg acaacacatt tacagttctg taatgcaagg atgcagtta 360
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ccctggggta actattttat aacttagata aaatggctag tcatatctgt gtgtttgtaa 480
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<210> 547

<211> 1585

<212> DNA

<213> Homo sapiens

<400> 547

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ttttttttttt tttttttatg agcaggagat cttaattgac agaaactcat tgggtggttg 60
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aatcttatgc acattccatt gtctttgcca agcccagaag ccattgtgtg ttcattgtta 180
agaaatttga tagatttacc cagcttttct atgtattttg acttattgaa aatatgtaac 240
aactgagtcg gggtgcagca ctgggtgggt agaatcgact ttccctgaag gtgacacaga 300
tgtcagaatt gtgtccaggg atttaattta gaccatact gtccaggaga ctgtctctas 360
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ctgcttttagg gcaggacttc agttccactg ttcatttctg aagcttctgt gtccccagct 960

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383

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taccctgttc tgraatgttg tattccattg gacagggctg ctatttttag tcagccatgc 1020
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gaaatgtgtt tttgtgtgcg tgtgtgtaga atgggtaaat aaaattgttg agtaacttga 1560
acctaaaaaaa aaaaaaaaaa aaaaa 1585

```

<210> 548

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 548

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aggatgtatt gtacacgcta tttgaatggc catggctaag caattctcac ttggtgctga 180
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gcaggagagc tattgaaatt gtagagtcag atgtcaaaag ccagactatt ctcaaaccac 480
tgtctgaatg taaatcacct tctgagcctc tgattcccaa gagggttggt cttattcaca 540
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gaataaatatc tttgggtctt actattttta ccataaaaag tgaccaggta gacccttttt 1140
aattacattc actacttcta ccacttgtgt atctctagcc aatgtgcttg caagtgtaca 1200
gatctgtgta gaggaatgtg tgtatattta cctcttcggt tgctcaaaca tgagtgggta 1260
tttttttgtt tgtttttaa 1279

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<210> 549

<211> 1389

<212> DNA

<213> Homo sapiens

<400> 549

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aaggacctgg agcggaggcg ggaagaaagt cagaccagaa tccgagatcc ccacgcagaa 180
tgacacagtg agctgccgct gggcccggag catgctgggc gtccccacct cgcagactgc 240

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384

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acgctccaac cgcccsctcc acctmetctt tccaggcccc gcagcttctg gagaaggaat 300
tcagcaacct tatctcetta ggcacagaca ggcggctgga cgaggacagc gccaagtctt 360
tcagccgctc cccatcctgg cggaagatgt tccgggagaa ggacctccga ggcgtaactc 420
ccgactcagc tgagatgttg ccccccaact ttcgttcggc tgcagcggga gccctgggct 480
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<210> 550

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (228)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<400> 550

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ggaaggcaag ggtatttttt acaacatcaa aaactttgtc cgattccagc tgagcacgag 120
catctccgcc ctgagtctca tactctgtc caccgtgttc aacctgccca gccccctcaa 180
cgccatgcag atcctatgga tcaacatcat catggatggg ccaccggngc agagggtgagg 240
cagggcggct gggagccctg tgtctcttta cctacctgcg gggcttcctc caggggctgc 300
tggtgtgtcc caaggctata gggatgaaca aatacagcca ctttccatca ggagttccca 360
gaaaactgaa gtgtgttgca ctggagtgcg actgggagta gaaggcagag gagaaagtac 420
ctgggcccgc agagctgggt gaggatggaa ctttctgctt cctctggctg gatgctctct 480
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385

<210> 551
<211> 1089
<212> DNA
<213> Homo sapiens

<400> 551
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tgtttaagaa agattttatat aatgtttaca aatctggaat caaggatttt agctgaaatc 180
ctttaagaga tattagagca agtatttaat tcaggtattt tcaagtttta aaacttaacc 240
tgtttaccta ctaaaaaataa aatagctagt ttttttctgc atataaaaagt tcattgaaat 300
gatatgccct tatttgcaat acttttccca taaagtttta agtgtgaaag aattgtaatt 360
tactagatat gtttggtatg ggatattttg ttaggcaagt tttctttttt cttctttaa 420
tgcaataggc ttccaaaaag agtataattg tttcagaaca aattaactct tggcattata 480
cgtctccctt tttctttaca gtattagtaa aatgaaaaat tgtacacttt ctgattttta 540
cttcactaat gtaattactc tctcaagaag cttttaaaaat ttaaattacc atcacacaac 600
ctttttatag taaagccaac atttggtctc tcaccaaacc ccatgccaaa ttcacatga 660
agaaagctca gcataagtaa ttcaaatact gcttataatt ttagaggggg gtagaattta 720
gtaaatattc cagccggtcg ttttatgcac aaggcttcag tcagaacata gaaaaaaaaa 780
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aagggaaact atgtactgtg atgtaaaagt ctgggcaaaa tgtatataat cctgtatata 1020
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aaaaaaaaa 1089

<210> 552
<211> 1938
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1521)
<223> n equals a,t,g, or c

<400> 552
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gcccctgtaa gctgagccct gaagaagaaa gtcaccatgt atccatcttt gttacctttt 240
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aaaaggattc tgatgacttt ttttgaactg tttgggcagg aatgctacag rgagaaycaa 360
tttctgtgaa ctgagagtcc ccaggtgata atttggtgtt tcacacacag gcagtttctt 420
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386

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gggatgtagt tcagcagtggt ctgaataagg ctgatgactc agaatcatgc agtgcctggc 540
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tctgtctttg cagttctgca cggagctaaa ccagccgacc ctgccaaca tccgcaagt 660
ggaagggggc ccgggggatgc tggaaggctg ttgttgctga gaagccctcg aatcagctcc 720
agaaggggagc tgggtatgca ggattcctat gggacgcggc tgccggcatg gagctgagag 780
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tgacgttcct ctgcgcatta cagaaagctt ttaactgtga tcaggcagtc tgctcagata 1860
cattgagtgg cgatttttag ttttgttttg aaaaaataaa cagattaacc tgcaaaaaaa 1920
aaaaaaaaaa aaattact
1938

```

<210> 553

<211> 1442

<212> DNA

<213> Homo sapiens

<400> 553

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ggccccgctc acgctgactt tccgtgcagt gctgtgggtgc gaaaatgcct cgccgctcyt 60
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tttcttttta acccctatct gaccaggaaa agaagaatcg aggtttccca cgccctagcc 180
ytcaccgaga gacrggtaaa aatctggttc cagaacagga gaatgaatgg aaaaagkaaa 240
acaacaagac aaatttcccg tttcccgca ggaggtgaag gacggggaaa cgaaaaagka 300
agcccaagag ctggaggaag acagagccga aggcctgmca awttaacytc tacctttaa 360
atttaccaca gactattaaa actaataatc accatatgct gtggacacca cctattttct 420
ttgttggaag ggaccttacc tgtgtttcaa gctaccttca tgtcactgct cttgagggtt 480
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ccttgagctg tcctatggaa gggtaatttg ataactgacct tgtagctata tttttataat 600
ggtttttaat gtctgagcta gtgatttgcc tcaacaacgt aaacttecta atgattagca 660
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gcaaatcgcc ttgtaaaatg cgtctcattt tttaacttgc tttcgttttg aaccgccctt 1140

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387

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gtaatcgccct gaaatcgcta gttctttatg cgggtggcygc cctgtgttcc gttattttca 1200
gtaggtgtca tatttatttg tattgccttt gttctgttcg ccgctggttt taaaccagct 1260
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aa 1442

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<210> 554

<211> 1446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 554

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cccagtgcc tactctgcat ttcttggaa gtggggagga ctctgattca gacagtgagg 300
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ggtacctgac ctcttcccc attgatgacc gcgtgcagag ccacatcctc cacttggaa 480
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gacatcaaa ctgagtcact ggacctagct gtgccccaa cctagattgg cagcaccacc 600
ccagggcaga ggactctctg ggcacccgct gtgcatggag ccagagtgca gagccccaga 660
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388

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<400> 555
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389

<210> 556
 <211> 2001
 <212> DNA
 <213> Homo sapiens

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 <222> (1979)
 <223> n equals a,t,g, or c

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 <222> (1991)
 <223> n equals a,t,g, or c

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390

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<213> Homo sapiens

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<220>
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<222> (596)
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391

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<211> 2667

<212> DNA

<213> Homo sapiens

<400> 558

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392

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aaaaaaaaa aaaaaaaaaa aaaaaaa 2667

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<210> 559

<211> 2607

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 559

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393

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<210> 560

<211> 1837

<212> DNA

<213> Homo sapiens

<400> 560

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tttaaatgat aaaataaatc taatgaatat aaactctcat gataaaccta ttttttccat 1740

```

394

catcagcctt ttcaagtatt taaataaata actgctgtgt actgtgatct tgagttcttt 1800
tgtcatctaa agtaaatatt tctgtacaga taaaaaa 1837

<210> 561

<211> 1682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 561

ggngcagcag cagccaggtg tggcagtgac agggaggtgt gaatgaggca ggatgaactg 60
gacagggtttg tacaccttgc tcagtggcgt gaaccggcat tctactgcca ttggccgagt 120
atggctctcg gtcattctca tcttcagaat catggtgctg gtggtggctg cagagagtgt 180
gtggggtgat gagaaatctt ccttcattctg caacacactc cagcctggct gcaacagcgt 240
ttgctatgac caattcttcc ccatctccca tgtgcggctg tggccctgc agctcatcct 300
agtttccacc ccagctctcc tcgtggccat gcacgtggct caccagcaac acatagagaa 360
gaaaatgcta cggcttgagg gccatgggga cccctacac ctggaggagg tgaagaggca 420
caagggtccac atctcaggga cactgtggtg gacctatgtc atmaggctgg tgttccggct 480
gttggtttgag gccgtcttca tgtatgtctt ttatctgtc taccctggct atgccatggg 540
gcggtctggtc aagtgcgacg tctaccctg ccccaacaca gtggactgct tcgtgtcccg 600
ccccaccgag aaaaccgtct tcaccgtctt catgctagct gcctctggca tctgcatcat 660
cctcaatgtg gccgaggtgg tgtacctcat catccggggc tgtgcccgc gagcccagcg 720
ccgctccaat ccaccttccc gcaagggctc gggcttcggc caccgcctct cacctgaata 780
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ctctgcctga aatgttacac attaaacagc acccctgccc tctgctcctc ttaccacat 1560
ccctctcac tgatgtgact ccagaaacag ggatctgac agcacagggt taagattagt 1620
ttcataattg gagacgctgt cggagcatcc catctcttgt acccagtggt cccagagtcg 1680
ac 1682

<210> 562

<211> 1694

<212> DNA

<213> Homo sapiens

<400> 562

gggccaagat ggtgaaaccc cgtctctact aaaaatacaa agaattagct gggcgtgggtg 60

395

```

gcgggcgccct gtaatcccag ctactcggga agctgaggca agagaatcgc ttgaacccag 120
gagggtggagg ttgcagtgag ccaagatcgc gccactgcac tccagcctgg gcgacagagt 180
gagattccat ctccaaaaaa aaaaaaagaa aaaaaaaga aaagttctgt gttgatgtac 240
agttttctcct aagaagaagc gaggtggttg aattttggaa gcacttcttg aatcggatta 300
acccatgctc ttattgaatt ttttcatctg ctctgttttag tttgatatta aagcaaaatt 360
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acacatgaga atgatttttt tctcttaatc attattaagg aaatatttta atttcatggg 540
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gatacgtgtt ttattttgtg tagcaaatc ctaaatgaac attaggcaag tgggtatcatt 660
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atztatgtac taattctata aacatgtatt aataattgca gtattattaa atacagatgg 1260
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aagaagcaaa gaaatactta agttagaaaa aaattaaaat gaagggatgg tctaagtttt 1380
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aaaacgtatt tgtactgaat ttagtacta gagaacatcg taacaaaata catgaaacaa 1560
aagtagccag aaatgttaga acaggtggaa atgtatacat tatttgatgg tttgtttttt 1620
tatggaaata aacaacatac atagaattaa atggtgatca aaaacatgga aaaaatactt 1680
cactaaaaaa aaaa                                     1694

```

<210> 563

<211> 949

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (914)

<223> n equals a,t,g, or c

<400> 563

```

tgcgcgccga gtctgtccct gcgcacccct gtggctttcc tgcaccactg cccccacca 60

```

396

```

ggatgatgga gagtaagatg attgctgcca tacactccag cagtgcagat gccaccagca 120
gttcaaatta tcattccttt gtcactgctt catccacctc tgtggacgat gcattgcctt 180
taccacttcc tgtcccacaa cctaagcatg cttctcagaa aacagtttac tcctcctttg 240
ctaggcccga tgtcaccact gaaccctttg gtccagataa ctgtttgcat ttcaatatga 300
ctccaaactg ccagtaccgt ccccagagtg tacctcccca tcacaataaa ttggagcagc 360
accaagtgtg tgggtgccagg tcagagccac cagcctccat ggggtcttcgt tataacacat 420
atgtggcccc aggaagaaac gcatctggac accactccaa gccatgcagc cgggtcgagt 480
atgtgtcttc tttgagctcc tctgtcagga atacctgtta ccccgaaagac attccaccgt 540
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tgtaccaata taagccatat cagtctctcc agggccgctc agattatcat gtcactcagc 720
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ctagttccta ttacagtcca gatggggccc tgtgtgatgt ggatgcctat ggacartcca 840
gttgagaccc tttcaacggc tttccantcg agantttgtt ttttacaatc ctaggttgca 900
aggaaagagc tttntacagt tatgctgggt ttgggtccag gtccccggg 949

```

<210> 564

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<400> 564

```

aaacagggag aaganaggan agaaaaaggg ggattagtta tatcaaaaag cctggaaagg 60
tggaatgga ccaaaaagat gggactcctc ctttattcca gcatggaggg ttttaaattg 120
aggatttcct ttttctgcg acaaaacgtc ttttcacaac ttaccctgtt aagtcaaaat 180
ttattttcca ggaatttaat atgtacttta gttggaatta ttctatgtca atgattttta 240

```

397

```

agctatgaaa aataataata taaaacctta tgggcttata ttgaaattta ttatttcta 300
ccaaaagtta cccacacaca aagttactga gcttccttat gtttcacaca ttgtatktga 360
acacaaaaca ttaacaactc cactcatagt atcaacattg ttttgcaaat actcagaata 420
ttttggcttc attttgagca gaatttttgt ttttaatttt gccaatgaaa tcttcaataa 480
ttaaattatg taaaaagtcn nan 503

```

<210> 565

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 565

```

gtctgagtgg atggacactg cctcttagaa ctagaactta gaactktatc ttgaaaatgt 60
accactgttg cagaagctcc tcacagagta tgtgtcaggc atttttaacc tgctaaaggc 120
aagaagaagt gttcaccaca tagttgcaaa ggtcttcaac ttgccacagc caacagaaaa 180
atcaaaatga ttgaaccctt tgggaatcag tatattgtgg ccaggccagt gtattctaca 240
aatgcttttg aggaaaatca taaaaagaca ggaagacatc ataagacatt tctggatcat 300
ctcaaagtgt gttgtaactg ttccccacaa aaggcaagag aattgtcctc tctttgnttc 360
ccatagcatt ttgg 374

```

<210> 566

<211> 1652

<212> DNA

<213> Homo sapiens

<400> 566

```

agcttatacc agctgaatgg cagccttgcc taatccacct acaacaagaa tttcttaagc 60
tttcttttat ttgcatgaga gagccactac caaggcatgt tttgttatgc tgaaactggg 120
ctgctgcata ctgctaaatg gcacctctgg gattggccta cctggggatt tcttggtttg 180
tgaaaacagg agaggagaaa tatctcatat aagtgaagg atactggaga gagaaattac 240
ccatttctaa aaaaaaacca cactctgtcg tatctgtgtt aatgttttct agcatgtact 300
ctggtttcaa cagacacaaa tttatatgtt aaccagttt tcttgccgtt ctgtaagtgt 360
tttattctta gtgtgatttt ttccatttgg gatgtttttg attgaacttg ttcattttgt 420
tttgcttggg aggaaaataa acaattttac ttttttcctt taggagcatt atgagcatta 480
tgtcagaata gaatagaatt ggggttcgat cttaacaggc cagaaatgcc tgggttttwt 540
tgggtttgtt ttgtttttgt ttttttatca aatcctgcct gactgtctgc ttgttttgcc 600
taccatcgtg acatctccat ggctgtacca cctgttcggg tagcttatca gactgatgtt 660
gactgtyraa tctcatggca acaccagtcg atgggctgtc tgacattttg gtatctttca 720
tctgaccatc catatccaat gttctcattt aaacattacc cagcatcatt gtttataatc 780
agaaactctg gtccttctgt ctggtggcac ttagagtctt ttgtgccata atgcagcagt 840
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aaaactaagc tgcattgtgg gttttgaaaa gggtattata cttcttaaca attctttttt 960
tcagggaact ttctagctgt atgactgtta cttgaccttc tttgaaaagc attcccaaaa 1020
tgctctattt tagatagatt aacattaacc aacataattt ttttttagatc gagtcagcat 1080
aaatttctaa gtcagcctct agtcgtgggt catctcttcc acctgcattt tatttggtgt 1140
ttgtctgaag aaaggaaaga ggaaagcaaa tacgaattgt actatttgta ccaaatcttt 1200

```

398

```

gggattcatt ggcaaataat ttcagtgtgg tgtattatta aatagaaaaa aaaaattttg 1260
tttcctaggt tgaagggtcta attgatacgt ttgacttatg atgaccattt atgcactttc 1320
aaatgaattt gctttcaaaa taaatgaaga gcagctgtcc ttctttcttc ttttaagtgt 1380
tcagctgtgg catgctcaga ggttcctgct ggattccagc tggagcgggtg tgataccctt 1440
ctttttcagc tgttcgtgcc ttcttttctt gtatccacca aagtggagac aaatacatga 1500
tctcaaagat acacagtacc tacttaattc cagctgatgg gagaccaaag aatttgcaag 1560
tggatggttt ggtatcactg taaataaaaa gagggcctgg gaattcttgc gattccatct 1620
ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1652

```

<210> 567

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1286)

<223> n equals a,t,g, or c

<400> 567

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tgaacctcta atagaactgt ctaaccctgg agccagtggg tccttgtttt ttgtgaccag 60
tgatgatgaa tttatcatca aaacagttca gcacaaagaa gctgagtttc ttcagaagct 120
actgccaggc tattacatga atttaaacca gaatccaagg actcttttgc caaaatttta 180
cggactgtat tgtatgcaat caggaggcat taatatcagg attgtggtga tgaacaacgt 240
tttgccacgc tccatgagaa tgcactttac atatgacttg aaaggctcaa cgtataagcg 300
aagagcatcc cgtaaagaga gagagaaatc caacccaca tttaaggact tagatttcct 360
gcaagacatg cacgaagggt tgtattttga tacggaaaca tacaacgcgc ttatgaaaac 420
acttcagaga gactgccggg tgctagaaag cttcaagatc atggattata gccttctggt 480
gggaattcat ttcttggacc attccctcaa agagaaagag gaggagaccc cacaaaatgt 540
gcctgatgct aagcgggact ggatgcagaa ggttctctac tcaacagcca tggaatctat 600
ccagggtcca gggaaatctg gagatgggat aatcacagag aaccagaca caatgggagg 660
cattccagct aaaagccata ggggagaaaa actactttta tttatgggca ttattgacat 720
tctgcaatca tataggttaa tgaagaagtt agaacattcc tggaaagctc ttgtttatga 780
tggggacact gtttctgttc atagaccaag cttttatgca gacagatttc ttaagttcat 840
gaattccaga gttttcaaga aaattcaagc tttgaaggct tcaccgtcta agaaacgggtg 900
caattcaatc gccgccctaa aggccacttc acaggagatt gtgtcctcaa ttagccagga 960
atggaaggat gagaagcggg atttgctgac tgaaggacaa agtttttagca gccttgatga 1020
agaagccctg ggatcccagc acaggccaga cctgggtccct agcactccat cactgtttga 1080
agctgcttcc ttggcaacca caatttcac ttcttcttta tacgtcaatg agcactatcc 1140
acacgacagg cctacactct atttcaaaca gcaaagggtt accttccagk tncaacattt 1200
taccttggga aggggggacc ttttacttgg accgttgggg cccaacattt tnggaagttg 1260

```


399

cagggtgaca ttgtttttgt ggtttngacg t

1291

<210> 568

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 568

```

gggaaagntg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc cacgcgtccg 60
gctttttatt ctgtggaagt aaaatcctga acgtttacaa cttttcctta acttgtaa 120
aaaaaattgt aagttttttc tttttttaca gaaaacttag ctgtgtgaat tctgttagtt 180
tcagatttct ctctgtttt tgcaaattgt gggaaagatt gacaatgcaa atgtgtcaaa 240
gacatactgt tgggtgcaat attaacaatt ttaaattgcaa atttctttgg ataaattatt 300
tctatattct gtaaatctga gatttaattgt atattttgtt taaaaaaatg atttagtaaa 360
atctttgaaa agtatgatct tctaaagnat ttnaaaanaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aa

```

<210> 569

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 569

```

tgctctgtcc cccttaacaa accagggggc atggaggggc ccagggcacc gccccctac 60
caggctcagg ccctccaagg agaacctgct gagacccttg agcctgtcct agaccccgga 120
cccctgaccc ttcccacccc ttccagcgtc ccagggcgag gccttggaca gagctcctgg 180

```

400

```

tcctctgcag ggagaccatc cagcccaagc tctgggaggc acagtccatt gagtgggcg 240
aggccgcggg tgctgagccg gggaggggtg tgggagtcca tccatccctc agacggcaag 300
tcccacaggg tccaaccac ctgaaacctg cctgcacggt ggaagtgggt gaggtggaca 360
ctcctagggg cttttctaaa gctagactcg cagctccttg ctcaggaaaa ttaactatt 420
cacgtttcag atcaagtgtt gacagtcacc agtcaggagg agttcttaaa gagttttatg 480
ttgactgaat attgcacatt gagtcccat tgagtccctg gtgggaaaag tccacaattt 540
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gaccgctgct tcggagaagy tctcgaccct aactgcagtc actgttactt ggatcagatc 660
aagcgcagtg actttttggg attcagtggg tattctccac acttcgtagc catttcaacc 720
aactctgagc acaaaatgca gccatccctc atgcagcaag cctgcccag tcagtgacc 780
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tgtaaaaact tttattagga tatctattta atactgaact ttggcctact ttgtgataga 1560
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gttacagagt tcaatatact gtgtaccatt gatcttctat tgtgaaagca aagaatttca 1680
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ggttggcagt gtccagacag ggagggccca tcaccgaaat cctgaacgat tactagacca 1860
attctattaa aaacatttca aggcattttg ggtgcgaaat ttgtttataa aagagaaata 1920
tccacctatg agaatttaag gagacgtctc ctgtaggcag acatcgctct gcccaaaaat 1980
tagtactgac acatgcgtgt gtgtgcgcgt tgtgtgcgtg tgtgcgtgca cgtgctgttg 2040
ctgcccttcc tagctggtgt gaggaagccc ggacgcgtgg gtcg 2084

```

<210> 570

<211> 982

<212> DNA

<213> Homo sapiens

<400> 570

```

ggcacgagct tacagacgct gccagcatcg ccgcccgcag aggagaaatg tctgaagtaa 60
gacccctctc cagagacatc ttgatggaga cctccttgta tgagcagctc ctggaacccc 120
cgaccatgga ggttcttggc atgactgact ctgaagagga cctggaccct atggaggact 180
tcgattcttt ggaatgcatg gagggcagtg acgcattggc cctgcggtcg gcctgcatcg 240
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tgacagacct ggggtctggc ttcatctacg accagactga ggacatcagg gatgttctta 360
gaagtttcat ggacggttcc accacactta aggagaacat aatgaggttc tggagatccc 420
cgaaccccg gtcctgggtg tctgcgaac aggtgctgct ggcgctgctg ctgctgctgg 480
cgctgctgct gccgctgctc agcgggggccc tgcacctgct gctcaagtga ggccccggcg 540
gctcagggcg gggctggccc caccctcatg accactgccc tggaggtggc ggctgctgc 600
tgttatcttt ttaactgttt tctcatgatg cttttttata tttaaaccac gagatagtgc 660
tggaacactg ctgaggtttt atactcaggt tttttgtttt ttttttatcc cagtttctgt 720

```

401

```

tttttctaaa agatgaattc ctatggctct gcaattgtca ccggttaact gtggcctgtg 780
cccaggaaga gccattcact cctgcccctg cccacacggc aggtagcagg gggagtgtg 840
gtcacacccc tgtgtgatat gtgatgccct cggcaaagaa tctactggaa tagattccga 900
ggagcaggag tgctcaataa aatgttggtt tccagcaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aa 982

```

```

<210> 571
<211> 872
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (865)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (867)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (870)
<223> n equals a,t,g, or c

```

```

<400> 571
gaagcaccct taggatacca ggaccctgtt tcccttcgga gaagacacac aaccatgacc 60
ctcagcctgg ggaccccaac tccaggccct ccagcccaaa acctgcccag ccagccctga 120
aaatgcaagt cttgtacgag tttgaagcta ggaaccacg ggaactgact gtgggtccagg 180
gagagaagct ggagggttctg gaccacagca agcgggtggtg gctggtgaag aatgaggcgg 240
gacggagcgg ctacattcca agcaacatcc tggagccctt acagccgggg acccctggga 300
cccagggccca gtcaccctct cgggttccaa tgcttcgact tagctcgagg cctgaagagg 360
tcacagactg gctgcaggca gagaacttct ccactgccac ggtgaggaca cttgggtccc 420
tgacggggag ccagctactt cgcataagac ctggggagct acagatgcta tgtccacagg 480
aggcccccacg aatcctgtcc cggctggagg ctgtcagaag gatgctgggg ataagccctt 540
aggcaccagc ttagacacct ccaagaacca ggccccgctg atgcaagatg gcagatctga 600
taccatttag agccccgaga attcctcttc tggatcccag tttgcagcaa accccacacc 660
ccagctcaca cagcaaaaac aatggacagg cccagaggst gaagcaaaca gtgtcccttc 720
tggtgtgtgt ggagcctccc cagtaaccac ctatttattt tacctctttc ccaaacctgg 780
agcatttatg cctaggcttg tcaagaatct gttcagtccc tctccttctc aataaaagca 840
tcttcaagct tgtaaaaaaa aaaaanantan aa 872

```

```

<210> 572
<211> 733
<212> DNA
<213> Homo sapiens

```

```

<400> 572
gcctgcgcgg actcccgctt tagtgggcgg agttgtgccg cgtctgatgc gcagttccct 60
ttatagcgcg gcaagccgaa tcctagaggc taaccgggca ggtgggaggg agaaagttgc 120

```

402

```

ttttctgcacc aatagctgag gcgttcaggg ttgtccaggg acgctaccct cacgtgtctg 180
gttccgagtg ctgcgttcgg ctgtgctggg aagttgcgta gacagtggcc tcgagaccct 240
gcctgcctga ggaggcctcg gttggatgcg aaggagctgc agcatccagg ggacaagatg 300
ccaactggca agcagctagc tgacattggc tataagacct tctctacctc catgatgctt 360
ctcactgtgt atgggggggta cctctgcagt gtccgagtct accactattt ccagtggcgc 420
agggcccagc gccaggccgc agaagaacag aagacctcag gaatcatgta gaactggggg 480
gctttttctc ctgagcagag agggccaagg catgctgtgg agagacttca cctgccacca 540
tttccaggtc aacaggacta gagcgttgat ggttttcaaa ccctgttgga agaaagtgcc 600
catggtttct ctggttctgc cagtttgaca gtttatggag gcttttgaat cgtaatagca 660
atgtgagggt gaggtacacc tacagacatt aaataatttg ctgtgtcaaa aaaaaaaaaa 720
aaaaaaaaagtc agc 733

```

<210> 573

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 573

```

gctgactaca gggccgcccg caataaaagc ccaggagccc atttggaggg cctgggcctg 60
gctccctcac tctcaggaaa tgctgaccca tgggcaggag actgtggaga ctgctcctga 120
gccccagct tccagcagga gggacagtct caccatttcc ccagggcacg tggttgagtg 180
gggggaacgc ccacttccct gggttagact gccagctctt cctagctgga gaggagccct 240
gcctctccgc ccctgagccc actgtgcgtg gcgntccccg cctccaaccc ctgcccagct 300
cccagcagcc agccaaacac acagaagggg actgccacct ccccttgcca gctgctgagc 360
cgcagagaag tgacggttcc tacacaggac aggggttcc tctgggcatt acrtcgcata 420
gaaatcaata atttgtgggtg atttggatct gtgttttaat gagtttcacr gtgtgatttt 480
gattattaat tgtgcaagct tttcctaata aacgtggaga atcacaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaagtcg tatcgatgt 569

```

<210> 574

<211> 1718

<212> DNA

<213> Homo sapiens

<400> 574

```

agtaccatcc tcgaggactg tccacgaggg cctgaggaat caggagctga actccacaga 60
gtcagttatg attaatggaa aatattgctg tccaaagata tacttcaacc accgttgctt 120
ctcagggcca tatcttaaca aaggaagaat tgctgagctg cctcaatgtg taggacctgg 180
gaactgtgtt ctggtcctta gagagcctac aaacccagcc gtgtccttcg ggagctccag 240
ctggacaaag actctgtgtg gcacggatgt ggggaagtcc taaaagccaa atataaagga 300
aagagttatc gggctactgt tgagatagtg aaaacagcag atcgggtgac tgaattctgc 360
cggcaaacct gtatcaaact ggaatgctgt cctaacctct tcggtccacg gatggttctg 420
gataagtgtt ctgagaactg ttctgtactt acaaagacca aatacacaca ctattacgga 480
aagaagaaaa ataaaagaat tgggaggcca cctgggtgggc atagtaactt agcttgtgcc 540
ctgaaaaaag ccagtaagag gagaaagagg cggaaaaatg tttttgttca taagaagaaa 600
cgctcctctg catctgttga taatacccca gcgggctctc cccagggaag tgggggtgaa 660

```

403

```

gatgaggatg acccagatga aggggatgat gattccctaa gtgaaggcag tacatccgag 720
cagcaggatg agctacagga agaatcagaa atgtcagaaa aaaagtcag ctcctcttct 780
cccacccaaa gtgagatatc cacatcgctg cctccagata gacaaaggag aaaaagggag 840
cttcgcacct ttctattttc tgacgatgaa aataaacctc cttcaccaaa ggaaataagg 900
atcgaagttg ctgaaaggct tcacctggac agtaaccctt tgaagtggag tgtggcagac 960
gttgtgcggt tcatcagatc cactgactgt gctccattag caagaatatt cctagaccag 1020
gaaattgatg ggcaggccct gttgctcctt acccttccca ctgttcaaga atgcatggac 1080
ttaaaattgg gccctgccat caaactttgc catcacatag agaggatcaa gtttgctttt 1140
tatgagcagt ttgccaaactg agaaggacaa ccaaagttag ctggatcttt gaagcacaaa 1200
tgcagcaaat ccttcaccct gctttataag tggagctgga atagtcctgg ggctctgggg 1260
cctgcaggta tcagcttgct ctctttgcac tttcggggaa ggaggactca cagtggaggaa 1320
gcaaaaaactg tgcacagaag tggatcacct gctggtggaa atgtggacat ctcttgttca 1380
gcagatggca gtttttaaaa aataaagggt gtgaggaaaa gacttatata agaagaaaag 1440
catttccagt ggtgtggcct gaaaacaaag aataacctag gctgctggaa agcacccttt 1500
tggttggttt cattctgttc cctcccattg tagattgaac tttgttctct gctttctttt 1560
tcttggaag agaggactta gctttaagtc agcactgatt tgggactggt cctaaggcat 1620
atcagtgtt cattgtcatt gtgtttttaa acttttttaa attaaaacag ttcatttttg 1680
ggatgaaaaa aaaaaaaaaa aaaawraag tcgacgcg 1718

```

<210> 575

<211> 1544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1538)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1539)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1544)

<223> n equals a,t,g, or c

<400> 575

```

agtgggatcc aaagaattcg gcacgagggg attaggtaaa agtcttgcag tgaaaaaccc 60
gaggaccctt accgcaagtg tcttttgctc ccagctactg atactggatt ccactcgtga 120
ttctcccttt cttagcgcat tcatgatata gacatcagtc tctgagctgg aggaggacaa 180
aggcagcggg cctgtgaatt ctatgctcta gcttgggtta agggatttgg aattgcactt 240
gttttcagaga gctccctctt tgcccactag cagggcatta gctggtgctg aagacagtgg 300
ctgcttggcg agcctggatc tccaagtga cccctcagca actcctgatg aacaggactg 360
aagccaatat taaagcaagt caaccaaagg ttctctggtg tagacaagac agcaaaagga 420
cagactacct tgtggaacct agcattgttc tccttctgca gactaagta ctgtgtgcag 480
aaatgtgatt gagattcaag tcagggcctc tctgcccttt tccctccaga aacaaaacca 540
agataattta tcctgaacac ggtgaaaaaa ggaagggagg gaggagaaaa agtccgggtc 600
tcacctggga ttctctgtct cctgcaacat gaaggattta gcctgggagg aggtggtgag 660

```

404

```
aactctggga gagaaaaaag aaggaaagaa tagttttacc catgctgaag ttaatttaaa 720
ccttcaccta gagaagcaaa aaaaaaaaaac ccacactttc ccattttgtg cctcccttcc 780
tagagtttta gccaaagggt tagctaagta attggtttta ccagcgact cactcctcct 840
atcccaagtc tgtttgactc cctcccatc atcctcctca cctcttttca ggcaggggtg 900
ggatagcagc aggaggagat tttgggagcc tggcaactcc tgcaaggacc gcaggacagc 960
ccctctgtgg ggatgcgtgg tgcccatct gccgcccttc tgaagaatgc actgccttca 1020
ctttttactg tgtttagagtc catccagact gttctatcca aaaaagtctc tttttcccc 1080
acaggcaatc aggaaatgat tcctttcccg actgcttctg tctagtgcct gggaatcttg 1140
agtcaatccc tcagtaagtc agtgactagg gaaatccctc tctgagcctc ccagtcatg 1200
ttgcttaggg aacctgatat tttcgtgaaa cctgcctaca catgggcagc ccaacagcag 1260
aacaaatggg ggtgaccaa gtgaacaaag aagtatagtt gtgccagctt cgtagttgcc 1320
catgtggaca agtcagcagg atcaggacac gaggaagagt aaatgtgaga cagtcaatgt 1380
gacttctgcg ataaacagat ttttaaacc cgaattttg caaaattttg gtgaaacctg 1440
aactttcttc gttgcatata ctggcactat ctgtaccatc atacaactgt ctcacattaa 1500
agctattttt cttgggcaaa aaaaaaaaaa aaaaatgnna aaan 1544
```

<210> 576

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 576

```
catcagttct atttaatact tatggcaatt aagagattta gaaagcagag gaaaagacca 60
aaaaaaaaagt atgngttaca aagtgtcatc atgcttgtag gacccagca ttcttgaaac 120
taacgcacct ttaaaaagta atatttacac tgctgtaaat atttgcaaag tatcaatgtt 180
taattcactt agaattttta ggattatgga tttactagcg aaaattcccc taaagcaact 240
ttcccatatc agtaactttt atttagggaa acaagttaa tgtacataat acatgtgacc 300
ttggaattca atagaatttt cgaaactaga agtaactcag aacrcttact agatggtttt 360
aaagtcyttt ttgatactgt ccytaacatt tgcytatttg cmaattaata tgtaagaatg 420
rgtcyaaaag taagtttttag gaatggttat tcgacaaaga tgttattcct attaccaata 480
ctgcgaaatg ataattacag aaacaatgtg ggatccgttt tataacttca aatttaagtt 540
cctttgtact ttggagcaga aaatgtaaga aatcgaaatc aagagttagt attttttatc 600
tttcaggctg gctttaactg ttcatacacc tagcaaaata aacatttgtg aaaggcgta 660
```

<210> 577

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

405

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (532)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<400> 577

```

aaatttactc cccagtacaa aggtgtctnt tgatcacagt aacccatagt cccccactgg 60
ggggacggtg ggggaagact ttgggaggat tttaccaga atacttgccg cctgtttttt 120
gtcctccagg aaaccagaag cccgggtaat taggacaaag ccaaaggccc cttgttagct 180
ggccatccct gccccatttt ttcccctggt cctttcccct gtggccacag ggaagtgtgg 240
cctgaatacc ccaccccggc tcctctgcac ccagagctgg gggccacctc agaagtgtca 300
tctctctctg agcacgcatt cccctgcagc antcgaggaa tgagcagatt gagtgatgct 360
ggggcagaga ggccctgggag gaaaggtgtt cagccagtcg tttgtaaggc gctcgtcggc 420
acctgctgaa acgcccccac ctgacagccc cactctcaaa gactgtctta attactcatg 480
gcaaggttct agagacttaa ggggaaaagc tgctttaagg ccaccacatg tntgtgctcc 540
ccaaccagtn tatctggctt ggggntcatt ttgg 574

```

<210> 578

<211> 939

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<400> 578

```

aattcggcac gagccaaagt gcagggatta caggtgtgag tgagccaccg cggccggcct 60
ctatcatttt ctgactcagc agctncacca aaattgacat cctagcaaac actgtgaagg 120
aattaacctt agtgcttcca gagcatctca tgtaacctct atggagtaag tcaactttttc 180
tgtaacatgt ggctttttgac cttgatgaag actttgactt ctcacccctg tctacatgga 240
ggaagatgat tcagtgggtg ggaaaatgaa cctcggtaac atttccaatg tccttcaaga 300
gggaaacaag ttcagtgtta tcatcgtggc attcgttagt tttttttttt taaatcactt 360
gttttagatac aactttatatt ttttatacct acatagcaca tgactggggg gataaagcat 420
gtataagttg ggagagggta aagaatgtgt gactatgtat acagaaaata gactaaaatg 480
tgcagcaaaa tgatatatac tgtaatctgg tttttgaagt atctactatt ctggaatatt 540
gttaaacaac tttttgcttt tgaaaaaaa aggtgccttg attcagttgc gtgacttaga 600

```

406

```

acattcatcc tattttattg tgatttttaa tgtcttctga ccccaaactg tgtttttggt 660
tgcagtctgg cggctgcagg catagcgctg gttttgttcc aataacagag accaaagagt 720
taatcagata tggttcagct gctacaattg tatgattcaa aggcaattta atcaccccaa 780
atttccatgg cccccacagt caagacctgc cattcgtttt ctcttgaggg ttggagtaaa 840
tttgcacttt gaatcatgtg ggtcatttgg ggacctgtt cttttctatt ttgctttatt 900
aataaaggaa cttgtagaaa aaaaaaaaaa aaaaacact 939

```

<210> 579

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (778)

<223> n equals a,t,g, or c

<400> 579

```

caccagagccc ggagatacca tccaccagaa cctgngccat ggcctattag tcctaaagnc 60
agttgtcaaa gcagggtgtg acgtcgggat tcgggaaatt caccagcgct cgcaacctca 120
gtccctcaag gccatacctg gacccaacgg tgaagaaaga cgatgaggag gaggaccgcg 180
tggaccagct gatctccgcg tctggctgtg ctgcctccca ctttgcagtg caggagtgcg 240
tggcccagca ccaggactgg cggcaatgcc agccacaggt gcaggcggtc aaggattgca 300
tgagtgaaca gcaggcgagg cggcaagagg agctgcagag gaggcaagaa caagccggtg 360
cccaccatg agaccccaaa ccacctatcc ccagtagatg gccctgccaa gaccagcacc 420
cagcaagatt atagaggaag aaatcctaaa tgctgggtgtg ggaggtctaa aacatgggga 480
gagtttttgg atctggagtt gagagccatg ggtttggaca tgactggcac aaacagctgt 540
catatgttca tggtcagatg tcatacatc tcagctgtct tgttccacca gtatttacca 600
ggaaaacaaa gaatgtgtta agggatgctc cccacccca catcttaagt cagtgtgccg 660
agtactgaga tgatttttag gacattttat tttaaattaa atttacaatc taatggtaaa 720
ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggggg 778

```

<210> 580

<211> 626

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

407

<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (537)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (617)
<223> n equals a,t,g, or c

<400> 580
gcgcttcaca gcttctctct cgtctgggat ggtgccc aaa ttgccagctg gcaaaatgaa 60
taaccgtgat ctcaaaccct agcctgatat agtcttgctt ccgttgccca ctgcctatga 120
gctagacagc accaaactga agagcccact aattacttcc cccatgttcc gtaatgtgcc 180
cacagcaaac cccacgggagc cgggaatcag acgggtyccg ggggcctcar aggtgatccg 240
ggagtcgagc agcacaacag ggatggctgt cggmattgtg gctgctgccc ccctctgcat 300
cttgatcctc ctgtacgcca tgtacaagta caggaacagg gacgaggggt cctatcaagt 360
ggacgagacg cggaactaca tcagcaactc cgcccagagc aacggcacgc tcatgaaggg 420
agaaagcagc anantctgaa gagccggcca caagaaacca gaaaaaacn tgggacaggg 480
gaagtattta acgtggtaaa accattggcg aaaccaactt gggttcaaca accgccnaag 540
ttttttttca ccaagggtta attttctctt aattcccaac gggcccttta tttgaaaaat 600
ccttttttgg ggaaccnggt tggaaa 626

<210> 581
<211> 645
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (595)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (604)
<223> n equals a,t,g, or c

<220>
<221> misc feature

408

<222> (608)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 581

```

gcttggatta tatctaaatg gattatttgt taaaagtact gaaatgagta taaggcagta 60
tcacccatcc aaaagaaagg tctttataga cctgcacagt cactagatta attcattaaa 120
atgccccac cctgatgtaa ttgacattac atttcttaac attttaaaat ctagaatttc 180
taaaatggaa tttaatgcca tcacaatttg aaaaactttt tttttttttt tactatagaa 240
gttacaaagg aagttctaaa attatgcctc cctctgtttt tataagttgc catcgaaaag 300
tgatttaa at aagcaggtta tctttataga ttttaaagaa aactagaaag ttytaatgtt 360
ttaacttggg gaaaaatata tctctttaat gtttagcatg cttgtcaacc ttgagtgagt 420
gtcattttta agaacagttg tagcccttct gattattgca gtagctgtag aagtatgtaa 480
gaatatgtga tgggtgtagt cattagcaaa gcatttaaat cacttgagta ttttgtcatg 540
gktcattatt attaaagcac aaaataacct attgttagaa aatatgtgtt ttatnaatga 600
atgnaaanta attaaaaaaa naaaaaaagg ggcggccggt ctaga 645

```

<210> 582

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<400> 582

```

gggaggggat ggggcacact tccccaaagg cggacccagc aggaggaagc ccaggagctg 60
ggctctgccg cccaggagct gggccctgcc acccaggccg ggctagggac atggcagggc 120
ctgggcatcc tggcgctgga cttgggcgac ctgggaggca cagggagggg agagatgggc 180
ggccccgccc cagcgagtg ccggccacac ccatgcaccg aagctcctcc ctgccacacc 240
ccaaggcggt tgccggagct taagccccgc ccccgagcag gagaacatcc cccccccac 300
ccccctgcag ccagtgtctc ttgtcaagct cccccgtna ctccagtggg anccaccccg 360
gngagggggg 369

```

<210> 583

409

<211> 1269

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<400> 583

```

gcggaacgcgt gggcgggcggc gtycagggtc ggcagcaacc gcagscgagc ccgagcgggt 60
ggcgggcgcca tggcgtgcgc ggggctgctc accgtgtgcc tgctccggcc gcccgcgccc 120
cagccccagc cccagacccc gcggcacccc cagctcgcgc ccgaccggg gcccgcggga 180
cacacgctct tccaggacgt tttccgcaga gcagacaaga atgatgatgg gaagctctca 240
tttgaggaat tccagaatta ctttgccgat ggggttctca gcctggggga gctgcaggaa 300
ctgttcagcg gcattgatgg gcattctacc gacaatttag aaacagaaaa actgtgtgac 360
tacttctcag agcacctggg tgtctaccgg ccggtgctgg ctgcattgga atcgctgaac 420
cgtgcagtgc tcgctgccat ggatgccacc aagctggagt acgagagggc ctccaaagtg 480
gaccagtttg tgacrcgctt cctgctgcgg gagacgggtga gccagctgca agcccttcag 540
agctcgctgg agggggcgct agataccctg gaggcccagg cccatggctg gcggtcagat 600
gcagagagcg tggaggcgca gagcaggctc tgcggcagcc ggcgggcagg acgcccagcc 660
ctgaggagtg tcagccggtc atccacctgg tccccggct cttctgacac agggcgcant 720
cagaggccga gatgcagtgg cggctccagg tgaaccgcct ccaggagctc atcgaccagc 780
tcgagtgcaa ggccccccgg ctggaacccc tgcgtgaaga ggacctggcc aaggggcctg 840
acttgacat cctcatggcc cagaggcagg tccaggtggc agaggaaggc ctgcaggact 900
tccaccgagc cctgcgctgc tatgtggact tcacaggggc ccagagccat tgtctgcatg 960
tgtccgcccga gaagatgctg gacggtgcct ccttcaccct gtatgagttc tggcaggatg 1020
aggcctcctg gagaaggcac cagcagtcgc ctggcagcaa ggccctccag cgcatacctca 1080
tcgaccactg cgggccccgg acaccctcac cactgtgttc tccccagcct cctggtggat 1140
aatgaataac aactgagcca gacctgcaca cgccgagggc cccgggaccc tgccctgcctc 1200
tgaacccccag gtgggacccc agcacagagg caataaaggc agtggtccct tccaaaaaaa 1260
aaaaaaaaa 1269

```

<210> 584

<211> 1943

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1177)

<223> n equals a,t,g, or c

<400> 584

```

gctgatccag aacgtcaccc agaatgacac aggattctac accctacacg tcataaagtc 60
agatcttgtg aatgaagaag caactggcca gttccgggta taccgggagc tgcccaagcc 120
ctccatctcc agcaacaact ccaaaccctg ggaggacaag gatgctgtgg ccttcacctg 180
tgaacctgag actcaggacg caacctacct gtggtgggta aacaatcaga gcctcccggg 240
cagtcccagg ctgcagctgt ccaatggcaa caggaccctc actctattca atgtcacaag 300
aaatgacaca gcaagctaca aatgtgaaac ccagaaccca gtgagtgccg ggcgcagtga 360
ttcagtcatc ctgaatgtcc tctatggccc ggatgcccc accatttccc ctctaaacac 420

```

410

```

atcttacaga tcaggggaaa atctgaacct ctctgccac gcagcctcta acccacctgc 480
acagtactct tggtttgtca atgggacttt ccagcaatcc acccaagagc tctttatccc 540
caacatcact gtgaataata gtggatccta tacgtgccaa gcccataact cagacactgg 600
cctcaatagg accacagtca cgacgatcac agtctatgca gagccacca aacccttcat 660
caccagcaac aactccaacc ccgtggagga tgaggatgct gtagccttaa cctgtgaacc 720
tgagattcag aacacaacct acctgtggtg ggtaaataat cagagcctcc cggtcagtcc 780
caggctgcag ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga 840
tgtaggaccc tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgaccagt 900
cactctgaat gtctctatg gccacagcga cccaccatt tccccctcat acacctatta 960
ccgtccaggg gtgaacctca gcctctctctg ccatgcagcc tctaaccac ctgcacagta 1020
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cactgagaag aacagcggac tctatacctg ccaggccaat aactcagcca gtggccacag 1140
caggactaca gtcaagacaa tcacagtctc tgcgganstg cccaagccct ccatctccag 1200
caacaactcc aaaccctgtg aggacaagga tgctgtggcc ttcacctgtg aacctgaggc 1260
tcagaacaca acctacctgt ggtgggtaaa tggtcagagc ctcccagtca gtcccaggct 1320
gcagctgtcc aatggcaaca ggaccctcac tctattcaat gtcacaagaa atgacgcaag 1380
agcctatgta tgtggaatcc agaactcagt gagtgcaaac cgagtgacc cagtcaccct 1440
ggatgtctct tatgggccgg acaccccat catttcccc ccagactcgt cttacctttc 1500
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aaataataac gggacctatg cctgttttgt ctctaacttg gctactggcc gcaataattc 1680
catagtcaag agcatcacag tctctgcac trgaacttct cctggtctct cagctggggc 1740
cactgtcggc atcatgattg gagtgtggt tggggttgct ctgatatagc agccctggtg 1800
tagtttcttc atttcaggaa gactgacagt tgttttgctt cttccttaaa gcatttgcaa 1860
cagctacagt ctaaaattgc ttctttacca aggatattta cagaaaagac tctgaccaga 1920
gatcgagacc atcctagcca aca 1943

```

<210> 585

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

411

<400> 585

```

caccggtccg gaattcccgg gtcgacccac gcgtccgggc tctgaaggag gttttcaagg 60
agtatttgat tgaactgngn nngttgcaac actttcaagg gaacatgatg gattttcttag 120
ctttcaagga gagactgtat ggaccattac aagcataatct taggcagaat gatttggaca 180
ttgaagaaga ggaagaggag cactttgaag tcattaatga tgaggtaaag gttgtggcca 240
gaaagcacgg gcagcctggg actcctgttg ccatagcaac ccasstaccg ccgaggactt 300
ctgcggtctt tccagcccag cagcagccgc tccaggtagt ttctgatggc tccacagtgc 360
agctccccag actttcctca ctcggtattg aggactcgat gtgctgaggc akgacccaga 420
gggggtcccaa gagcctgtcc tcttttgttc aaaatacatc ttgaaacgtc tttgtgaagg 480
ctcttagttt taatgcatgg atgctgttat ttttccttac tgttactgaa attaaaaagt 540
gtttgtctct gaaaaaaaaa aaaaaaaaaa aaaaaaa 577

```

<210> 586

<211> 1240

<212> DNA

<213> Homo sapiens

<400> 586

```

gtcgtgccc cggccccgcc cgcgtcagct ctgcgcggtg attcactccc tccttcgccc 60
cggggccccc ttcccggcca gacggcgggc aagacagctg ggtgtacagc gtcctcgaaa 120
ccacgagcaa gtgagcagat cctccgaggc accagggact ccagcccatt ccattggcga 180
ttctgagcgc ctctcggctc ctggctgctg ggccgcctgc accaacttct cgcgcactcg 240
aaagggaatc ctctgttttg ctgagattat attatgcctg gtgatcctga tctgtttcag 300
tgcctccaca ccaggctact cctccctgtc ggtgattgag atgatccttg ctgtattttt 360
ctttgtttgc tacatgtgtg acctgcacac caagatacca ttcatacaact ggccctggag 420
tgattttctt cgaaccctca tagcggcaat cctctacctg atcacctcca ttgttgtcct 480
tgttgagaga ggaaaccact ccaaaatcgt cgcaggggta ctgggcctaa tcgtacagt 540
cctctttggc tatgatgcct atgtcacctt ccccgttcgg cagccaagac atacagcagc 600
ccccactgac cccgcagatg gcccgtgta ggcgaacttc cctcatttct ctctgcaatc 660
tgcaataaac tcctccattg aaataactcc tccccacccc aacaacaaca ttcccagcag 720
accaactccc accccctctt tgaggtaaaa gtgcctttat tgggagactt ttgtcttcca 780
gcctgccaat caaccctcct ggggtgtggc accatatgtg tgtgcctagg tcctccttct 840
gcacgatcca ataggagaca ccagttctga ctgaaccatg cccccaccta agtcacaaaa 900
tgagggaagt ggggagttag atttcagagt ccaggcccta ggttgggacc cactccaaat 960
aatctcctcg gtgtgggtgg tggttctata gagggataaa tgaataataa acattgttaa 1020
aatatacgat aatgaataaa gtaatccttt catcaaagt gggtaaattt caagcatcag 1080
gagggggaaa tggagtggaa acagctgggg caaggaggca aagaagccag gcctgtttta 1140
caacaaatat taaattactt caataatata aacgagaggc ccggtgcggt ggctcatgcc 1200
tgtaattccc agtccttttg gaggctgcgg gaggattgct 1240

```

<210> 587

<211> 875

<212> DNA

<213> Homo sapiens

<400> 587

```

ggaarggttg taggacttaa tcacgtttca gcttggctgt cgggctgtga gtcacggttg 60
cactgcgatt atgtaagcac gcaggaatag gtggcatgac atatatgctg ccagcagcca 120
cgggcctcgc ccttccgagt caccactact ttttaagcct ttttttggat acaagtttct 180
ttgggttcat ctttgraatg raaatgraag catgattgca gaataggcag amcaggaatt 240

```

412

```

atccatcaat cagagagamc ccagaccttt aagagaagct ggaattagaa tatggaattc 300
ctgagccttg agctggcata gccgagccct ggtttatgct cttcctgcct ccctcctttt 360
ttccctcctg cctgtgtgct ccacttcctc tcctgagact cccccaaggt agcatcactc 420
ccaccaggag ccttaggcag gaaaagtaag gccagagaa gggactgtcc ctggggacgt 480
gcactgagtg tgtgtgaggg tgcggggcag gaataggagt gccaggagtc tacctctgga 540
gcaatgcctc ccacagtatt tctgtagggg aaaggataga aactcacttc ttgggttcct 600
ccaatcacca tgcacatgtc agtccttcag ctatcaatgc aaaggaaacc cagaactgag 660
atctgagctt tctcaccatc tccatggtca gatctctcca ctgccaaagg gttcattccg 720
cctctggggt tatctctttc ttcattgctt ttcctggcag tgcctgttg aagcttacct 780
tcccatctgt gtttgcattc actccctaaa aactacaaga caaaaaaaaa aaaaaaaaaa 840
tcgagggggg gcccggtacc caattcgggc tatag 875

```

<210> 588

<211> 1517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<400> 588

```

gttgagtctt tgggtgtgct tttaatggct tctctgcctc ttccttaggt gtcaggctgc 60
tctacctgtt tctagacgct cttcctttcc cccttccaaa cctcttttct tccttgctgc 120
tttctatct tctgtggcta gganatcagg taatcaagcc tgtgttttct gtaatgagta 180
agtgggttgc cagcgaggct tctgtggatg ctcctgtgag tcaagtgcag gagctttagt 240
gcatggactt tgggttcttg gttccacag cttatatgtt ttgggggctg ctttcttgct 300
ctttaccac attctgtgtc atgagtgtgc cgggtagggt gcctcctgcc cgatggaggc 360
tgagcatctt ggcagtgtcc atcatgcctt gcgtgtgcct ggctctttg ctgcagatac 420
tatggaccgg cagctcatcc cctgctcacc acctggcctc tctttttctc tgtgtgcaga 480
tctggcagtg tgggtgggtt ctggaaacac acctatgttc ccatgttggc catgttttcc 540
ccaagcaagc tccctactcc cgcaacaagg ctctggccaa cagtgttcgt gcagctgaag 600
tatggatgga tgaatttaaa gagctctact acctcgcaa ccccgctgcc cgcttggaac 660
cttttgggga tgtgacagag aggaagcagc tccgggacaa gctccagtg aaagacttca 720
agtgttctt ggagactgtg tatccagaac tgcattgtgc tgaggacagg cctggcttct 780
tcgggatgct ccagaacaaa ggactaacag actactgctt tgactataac cctcccgatg 840
aaaaccagat tgtgggacac caggtcattc tgtacctctg tcatgggatg ggccagaatc 900
agtttttctg gtacacgtcc cagaaagaaa tacgctataa caccaccag cctgagggtc 960
gcattgctgt ggaagcagga atggataccc ttatcatgca tctctgcgaa gaaactgccc 1020
cagagaatca gaagtctatc ttgcaggagg atggatcttt atttcacgaa cagtccaaga 1080
aatgtgtcca ggctgcgagg aaggagtcga gtgacagttt cgttccactc ttacgagact 1140
gcaccaactc ggatcatcag aaatggttct tcaaagagcg catgttatga agcctcgtgt 1200
atcaaggagc ccatcgaagg agactgtgga gccaggactc tgcccaacaa agacttagct 1260
aagcagtgc cagaaccac caaaaactag gctgcattgc tttgaagagg caatcatttt 1320
gccatttgtg aaagtgtgtg tggatttagt aaaaatgtga ataagctttg tacttatttt 1380
gagaactttt taaatgttcc aaaataacct attttcaaag ggtaatcgta agatgttaac 1440
ccttgggtatt tagaaaatta aaaccttata atatttttct awmaaaaaaa aaaaaaaaaa 1500
aagggcgccc gctctag 1517

```

<210> 589

413

<211> 871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (863)

<223> n equals a,t,g, or c

<400> 589

```

gggagcgggag gncaggaacc caataagctg cttcgccctcg gagctgaagc ccgtactcaa 60
gatggcgggct ccgggcgggc gtggccagtg actagaaggc gaggcgccgc gggaccatgg 120
cggcggcggc ggacgagcgg agtccagagg acggagaaga cgaggaagag gaggagcagt 180
tggttcttgtt ggaattatca ggaattattg attcaractt cctctcaaaa tgtgaaaata 240
aatgcaaggt tttgggcatt gacactgaga ggcccattct gcaagtggac agctgtgtct 300
ttgctgggga gtatgaagac actctaggga cctgtgttat atttgaagaa aatgttgaac 360
atgctgatac agaaggcaat aataaaacag tgctaaaata taaatgccat acaatgaaga 420
agctcagcat gacaagaact ctccctgacag agaagaagga aggagaagaa aacatagggtg 480
gggtggaatg gctgcaaata aaggataatg atttctccta tcgacccaac atgatttgta 540
actttctaca tgaaaatgaa gacgaagaag tggtagcttc agccccagat aaatcttttg 600
aattggaaga ggaagagatt caaatgaacg acagttcaaa cctgagttgt gaacaggaga 660
aaccaatgca cttggaaata gaagattctg gtcctcttat tgatatacct tctgagacag 720
aaggttctgt ttttatggaa actcaaatgc tgccttagaa atcactccta gatgaaatgt 780
ttctcataat aacttgtcaa gaacttttta gagttgttac ataaaaataa ttgctgtgta 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa t

```

<210> 590

<211> 1566

<212> DNA

<213> Homo sapiens

<400> 590

```

ctttcatact acccttttagt cataaggaga aaaaaaact caaatagtag aagcagcaag 60
tagcaaactt caggagagct actttctatc caaataattt aaaaaaact tttcacctac 120
tcctttcatg gttataaacac attggcagac tttttgctgg ctctgggagc catgatttta 180
atcacattct gcaagggtgac aaatgtcata cattccacat tgtgtggtag ccactctctt 240
agactcatgt gttttgggga aaggaagaag ttcttggtcg agtactattt tgaactttcc 300
agaaccctct cacaccagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360
ctaaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420
gatagataca gcctttttcag aagatctcca ctagtttttg ttccaaaaat tcaagtttat 480
gggagaaatc tcaattagcc accttttcac agttgtgtgg atataacatt tgggggatct 540
ttctggactc ctacctatct gtgcatttta ccggcacctc aggaaaggag ggtgaccagg 600
ttgtcttagc ttgtactgct tgggtgatctc tgaggacctt ctaattcagt tgtaccccag 660
tgttccatgt atagaaaaaac ttcattagaa caaactttac ttgatatgaa actcctatta 720
acagtctttt tttgaaaataa aaagtagctt gagctttctt ttaaaatcat gtatcttgat 780
tgttgattta atgaaggatt tccttttaat gctgcttttg agcttcaagg taataggaca 840

```

414

```

gcaggaacct aaaatatctg ccatcatctg ccataggaaa gatacccaga gacccatcat 900
gttctctttt tgttgttaca ctggtgggtg ggtataacaa ttggaaaatg aacaaactga 960
ttgattgtgc aaactacttt ttatgacaag cctaaaccct cataatgcgg cagcttaaag 1020
tgtatacata tgcactaact ttgatcaatt atattctcat atctgttagc tacacagtct 1080
cctattatct caattgctta tgtgcatatg gaatatgtta cttaaaacgt gtgcattctt 1140
actgaaaatg ttttcaaagg aaggatcag ctgtgggcta attgccacca atttcagcct 1200
gccacgattc ttggaaatat gtcttccaag tgccatccat catcagtagg acaagtgtcg 1260
ggagtttggt tatttttttc cagtagcaac gatgggttac atggagccat gaaacctcct 1320
tctggcctcc cttgtgatta atggcatgtg tttgtaaaat ggatagctgg ggttggcaga 1380
tggctagaga agaatcgctt ttggttttaa atgtatgtgg tccccctaat attgtgaccc 1440
cattctgtaa tcaactgagc tagttccaat aaagttaagc aggtttttaa ccactttgtg 1500
cctatctttt cactgacaat aaagttagct atttttaa gcaaaaaaaaa aaaaaaaaaa 1560
aaaatt                                           1566

```

<210> 591

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 591

```

accttgagtg tccttggcaa cctagccttt gacattgatg tttttccata ggattttctt 60
catttggggtt ggaataaaaa tgcattttta ttcacaaggc acagacagat aagaatatca 120
taagcagggga agtgtctcca aaggtcagga cttatgtttt tctgttgagt gctatatgtg 180
gaggttattg caagtccct gatatgagta tggtttcgct tgctacattg tgcctattaa 240
agtaaaattt tacacaagcc tcgcatttct aagattagtg ttcccgaatg aaatgtnaa 300
gaaaacatta aaagattatc tctttttaag atggaggaaa aaaagtgaac aaagctaatt 360
aatctataat gaaaattgca caaaataaca tttcttaaca aatttaatac aattttgtgt 420
tctttgttgc tagtggtata aaacgagatt tttttccctc atttttctca ttgtagatgt 480
catctctcac atttatatca gtgagggttg aaattctgtg tagcagttac tcagcacata 540
tgagaggggca gcgaatgaat gagatttgtc atgtgctaataaaaagctgaa tttttgtaat 600
ctaaaatgat gtattttcta ctattgctgt taatttgcattgttaaaaaat tcttaaagtt 660
taatattgta tgttcagtca ttgaaagcga ccactcattt ttttcttaaa gttgatgcct 720
tttctgctgt gctagagtca gtattttgct tctggcagga gagctgcaaa ctgtgtatcc 780
tcaaacagat gcaaaaagta gtgctttgca aaacgtttgt tttctgttta tctcagatta 840
acatccttta atacaagttt cttaagtgtg acttgtattt ctgaaaatgc ttaaaattat 900
tttatatttc cctttgggaa tttttctcta tttccagcac gctgatttga tttaaaaatg 960
taataagacc aagagttgga gtaaagggtat attcattcca tgttaaaagt ggcttcatag 1020
ctactgacaa atgtctgaac tattgtcgtg ccttcaaaa ctggagtttt ctaaaataat 1080
cttattttta tacttgtatg ttccagcaat ttaagatata taccattgaa agggaaataa 1140
aacatttttg tttatttgaa taaataatac tcccaaaaaa aaaaaaaaaa aa 1192

```

<210> 592

<211> 401

<212> DNA

<213> Homo sapiens

415

<220>
 <221> misc feature
 <222> (220)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (361)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (400)
 <223> n equals a,t,g, or c

<400> 592
 ttattttggaa gacattathtt gtggaacata atggcataac atttacatac gttcacctwc 60
 tgacttttgag tatgaatgtg taggttgtgt atatgtgtga atatataac accacgatgt 120
 cattctaagt gtttggaaat aactgttcat acatgtrgtt taccttcttc cttggaatta 180
 ctatcttgta atatggcatt aaagaattat cccatctctn aagtcctttg cctgggaaac 240
 atggtgaact ggaggatcct tacacattct gtgtgaccag ctattaaaca gaatgaggac 300
 taggtctctc tgtcactgac ttgggaaggt aatgaaatgt tcagggaacc agtattgaca 360
 ncttgcagct tttgccccgg ttttgtttcc caggtgattn a 401

<210> 593
 <211> 654
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (71)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (545)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (564)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

416

<222> (592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 593

```

gtccggctta ctttttataa cttgaatggt aaggaatgga ccatgggcta ctactgggca 60
ttagtgccat ntaaccagcg ataataaaat tctctattag tctgttaatt tatgaccatg 120
atctcgggaat ggaaaaagat catttccaga gtgtgcgaaa taatagtctt taaccatgta 180
attaaatatg tgtgttttatt gtcaataaag gatttggttt aaagggtgatt cttgggtttg 240
aagacatttg ttaattcatg gtctgtacag aaatgaagct ggttgcaata ccaatctaga 300
gagtcgaagc tggcgaacta ttaagctggt taaagatcac ccttggcctg gcacagtggg 360
tcacacctgt aatcccagca ctttgggagg cctaggcagg cagactgagc tcaggagctt 420
gagaccagcc tgggcaacat ggcaaaaacc cacctctaca aaaagtacaa aaatttagtcg 480
ggcgtgatgg caggcatctg tagtcccagc tacttgggaa gctgaagtgg gaggatcacc 540
tgganctctg gatgtggaag ctgncatgag ccatgatcgt gccactacac tnnagcctgg 600
gtgacagaat gagatcctgt ctcaaaaaaa aaaaaaaatc acccttaaata caac 654

```

<210> 594

<211> 682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (673)

<223> n equals a,t,g, or c

<400> 594

```

tgggaaggagc agcagttttg caaggtaagc agggcagaga cacagcccat ggccccctcat 60
tgccctgctg gtaagggctg atggarctcc ccgcagcgtg gttcctgcct ggktgacaga 120
ggctcctktg gccacttttag aartgcggtt tactcctcat gccgagatgg accttgggca 180
gctcagttca caagatgttg gtcaggcgctc atttaaataat ttccagtcag cagaggaagc 240
aaagcgtgcc attgaggctg tgctgtcagc ggatcctcgg tctgtgtacc gccggaagct 300
ttgccaggac cgccttttct actttactgt agacatagcg catgtcactt gctgggtttg 360
tgatggcttt gcagagggtc tgaggatcaa gccggcttct gagectgttc atatgactgg 420
ccctgtgggg tccttggtgt ctctagggtc ttaaggagcc tccctcatgt ctttaaggta 480
gcatcattga tctttggatg tggcttttgg attttctgaa caagctaata ttgtgtcrag 540
aagcaacact ttgtgatctc atggctttga ttgatttggg ctgttcaaaa tgtttatattg 600
aaaaacgtat acattaataa acttaacaaa gagatataaa aaaaaaaraa aaaaacccga 660
ggggggggccc ggnacccaat tc 682

```

<210> 595

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 595

417

```

cagtctcagt tggagggctg atartaaacc ttattggtat ctgtgccttt agccatgccc 60
atagccatgc ccatggagct tctcaaggaa gctgycactc atctgatcac agccattcac 120
aycatatgca tggacacagt gaccatgggc atggtcacag ccacggatct gcgggtggag 180
gcatgaatgc taacatgagg ggtgtatttc tacatgtttt ggagatata cttggcagca 240
ttggtgtgat cgtatccaca gttcttatag agcagtttgg atggttcac gctgaccac 300
tctgttctct ttttatttgc atattaatat ttctcagtgt tgttccactg attaaagatg 360
cctgccaggt tctactcctg agattgccac cagaatatga aaaagaacta catattgctt 420
tagaaaagat acagaaaatt gaaggattaa tatcataccg agaccctcat ttttggcgct 480
attctgctag tattgtggca ggaacaattc atatacaggt gacatctgat gtgctagaac 540
aaagaatagt acagcaggtt acaggaatac ttaaagatgc tggagtaaac aatttaacaa 600
ttcaagtgga aaaggaggca tactttcaac atatgtctgg cctaagtact ggatttcatt 660
atgttctggc tatgacaaaa caaatggaat ccatgaaata ctgcaaagat ggtacttaca 720
tcatgtgaga taactcaaga attacccttg gagaataaac aatgaagatt aaatgactca 780
gtatttgtaa tattgccaga aggataaaaa ttacacatta actgtacaga aacagagttc 840
cctactactg gatcaaggaa tctttcttga aggaaattta aatacagaat gaaacattaa 900
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aagtccatta agtaaaatct gtattgccac tttaaatgta aactaaatta tttgggagaa 1260
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ttgatgtatt acaaaaaatca accactctat aaaataaatt ttttttactt ttggtaatat 1380
ttgcaaatga ataattaatt tattagggta aagaacttat actaagttgt 1430

```

<210> 596

<211> 1597

<212> DNA

<213> Homo sapiens

<400> 596

```

gctagtcctt cggcgagcga gcaccttcga cgcggtccgg ggacccctc gtcgctgtcc 60
tcccgcgcgc gaccgcgctg ccccgagcct cgcgctgccc ggccggtccc tctgttccca 120
ctcccggcgc acgcccctcc ggcagtcctc ggcccctccc gcgcccctct tctcggcgcg 180
cgcgagcat ggcgcccccg caggctctcg cgttcgggct tctgcttgcc gcggcgacgg 240
cgacttttgc cgcagctcag gaagaatgtg tctgtgaaaa ctacaagctg gccgtaaact 300
gctttgtgaa taataatcgt caatgccagt gtacttcagt tgggtgcaca aatactgtca 360
tttgctcaaa gctggctgcc aaatgtttgg tgatgaaggc agaaatgaat ggctcaaaac 420
ttggggagaag agcaaaacct gaagggggccc tccagaacaa tgatgggctt tatgatcctg 480
actgcatga gagcgggctc ttttaaggcca agcagtgcac cggcacctcc aygtgctggt 540
gtgtgaacac tgctggggct agaagaacag acaaggacac tgaaataacc tgctctgagc 600
gagtgaagaac ctactggatc atcattgaac taaaacacaa agcaagagaa aaaccttatg 660
atagtaaaag tttgcggact gcacttcaga aggagatcac aacgcgttat caactggatc 720
caaaatttat caccagattt ttgtatgaga ataattgtat cactattgat ctggttcaaa 780
attcttctca aaaaactcag aatgatgtgg acatagctga tgtggcttat tattttgaaa 840
aagatgttaa aggtgaatcc ttgtttcatt ctaagaaaat ggacctgaca gtaaatgggg 900
aacaactgga tctggatcct ggtcaaaact taatttatta tgttgatgaa aaagcacctg 960
aattctcaat gcagggtcta aaagctgggt ttattgctgt tattgtgggt gtggtgatag 1020
cagttgttgc tgggaattgt gtgctggtta tttccagaaa gaagagaatg gcaaagtatg 1080
agaaggctga gataaaggag atgggtgaga tgcataggga actcaatgca taactatata 1140
atgtgaagat tatagaagaa gggaaatagc aaatggacac aaattacaaa tgtgtgtgcg 1200

```

418

```

tgggacgaag acatctttga aggtcatgag tttgttagtt taacatcata tatttgtaat 1260
agtgaacact gtactcaaaa tataagcagc ttgaaactgg ctttaccaat cttgaaattt 1320
gaccacaagt gtcttatata tgcagatcta atgtaaaatc cagaacttgg actccatcgt 1380
taaaattatt tatgtgtaac attcaaagt gtgcattaaa tatgcttcca cagtaaaatc 1440
tgaaaaactg atttgtgatt gaaagctgcc tttctattta cttgagtctt gtacatacat 1500
acttttttat gagctatgaa ataaaacatt ttaaaactgaa aaaaaaaaaa aaaaaaaaaa 1560
agtcgacgcc aggaatttag tagtagtagt aggcgggc                                     1597

```

<210> 597

<211> 602

<212> DNA

<213> Homo sapiens

<400> 597

```

ggcaggggtg gagecctcat ggagaacctc tgtaggggca gtgcagaaga gaaatgtgag 60
gtcagagcct tcacacacag tccccactga ggcaactgcct agtggagctg tgagaagaga 120
gccactatcc tccagatccc agaattggtag atcaaccaac agcttgcaact gtacatctgg 180
aaaagctgca gacactcaat gccagcctat gaaagcagct tggaaatgggg ctgtaccctg 240
caaaggcaca ggggcagagc tgccaagacc atgagagtct acttcttcca ccagtgtgac 300
ctgaatgtga gacatagagt caaaggagat tattttggag ctgtaaaatt caatgaatac 360
cctgctggat tctggacttg tcattggcctt ttagccctt tgttttgtcc aattctccta 420
tatggaatgg gagcatcctc atccaatgcc tgtaccctca ttgtgtctta gaagtaatta 480
acttgctttt gattttatag gccatgctaa tcagcattca gttctagatt ccaatttatt 540
ctcagtgtgc ctgtataact tttctttcta tatatatata attaaatttc tattacttat 600
tt                                                                                   602

```

<210> 598

<211> 432

<212> DNA

<213> Homo sapiens

<400> 598

```

gctcgtgccg aattggtgag gcgtcaggtg cggccgccag gtgagcgcgc tccctggcac 60
cgttggcccc cggagggtcg ggcccagttg cggcgagcgg attgggtttat cttggaagct 120
aaagggcatt gtcacatcctg aagatcagct gaccattgac aatcagccat gtcacccagg 180
cctcttgaaa gtccacctcc ttacaggcct gatgaattca aaccgaatca ttatgcacca 240
agcaatgaca tatatggtgg agagatgcat gttcgaccaa tgctctctca gccagcctac 300
tctttttacc cagaagatga aattcttcac ttctacaaat ggacctctcc tccaggagtg 360
attcgatccc tgtctatgct cattattgtg atgtgcattg ccattcttgc ctgtgtggcc 420
tcacgcttgc ct                                                                                   432

```

<210> 599

<211> 1319

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

419

<400> 599

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tgtgtgttca caaccaaagt ttgatgcctt tatctactga taatatcctc tcaatgttca 60
ctgaggcata gaaattatatt cagagtagaa attgcagcat gaggataaac tcacctcttt 120
gttctgaaaa tagaacttta tcaactatgct ttccggtggg tttccctttt acaatcgaaa 180
tcttgtgcct cccaagtgca ttggaaaagt acaaaagcct gtctctccaa attcctatatt 240
aacagtttga tttttttttt ttaatcacca tctttcaaatt cttagctcaa ctctcaccaa 300
gtgaaaattg gctacttggg agaaaagttaa ctttctatgg tgggatgggt aaggatgagg 360
gacagttttac ataggaaaaag aaaaaaaaaa gtctaaagtc catgttgaaa aaccacacta 420
ccacttatatt tctgctaacc ctaaattatt tttgcgtata cgcttgaggt tatagtctgt 480
gcctagacct aaaatgcacc agcggggggg attttaaaaa atccttcaaa ataccagttt 540
tttcccaaca agtacaattg ttcttgtgcc ttctgtggct ttcgatttca nctttttkac 600
tttwtttcca attactacag ctgcaataaa cactagattt ttttctggc tgtttgacat 660
aacgttgata gctatgcata tkttgtgtct ttttaaaaca aagcgggaga atacgttttt 720
gaagaagaga attttttagaa cagtttgata ccgcaaatta ttttctcctc aattgtttga 780
gcagcattcg agttttgaaa attctttagt aagccaattt tttgtaactg tgggtgcaaat 840
cttgtgtttt cttagcctaa tgaaaagtag tatagaagca atatttcata ccatgtgcta 900
tatatgtgtg cgcagatgtg tgaacataaa atcacatata cacatatata cacatgtaaa 960
aatatacata tatatatatg cgtgtgaagt ggaaagctta ctttttccta tctagattta 1020
agaacctatt ttagacattt gttatgtttt gtgaaaagaa tgttctatatt gcaacaaaaa 1080
atttaattct tactgtatct ctggctgttt aatgaggacg tttcacatta aatggtaaaa 1140
cacatggaag atgttagaat gtagtaatta ttttaagtaa cgttcaccca catattcctg 1200
aagtttgctt tgtgcctccg agtattatatt aattaaagaa gtgttttatg tttgcagaat 1260
ctttgtcact gtactagggg tgtgggtgaa tatcatttaa aaaaatttaa aacaacaaa 1319

```

<210> 600

<211> 973

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (942)

<223> n equals a,t,g, or c

<400> 600

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ctcacctccg agagctagac tttggccagg catggctaaa accactgggt aacgatgtga 60
cagttatgat cttggagatt ggaaatcttt cttccacatt agagttcttt accttaattc 120
cttattctga aaaattgtaa gattttatga aggtttgaat actgaagcac agttctgctt 180
tcaaaaatta aaattcaaac ttgaaaaagc tgtttaaccc atggaagata tcatttagta 240
agatgtaaaa gatttttttaa atctacactt cagtttatac atctttatca ttatcaatac 300
tatataagtt actgtgagca ttttagagaa ttccataaag gtactatgag tgtgtctgta 360
tgtgtgtgta tatatagcat tgtatttaat catagactaa atttaatttg atatagaaat 420
actactttac ttgtacatta aggtcataat ttctgtctgga ctctttttata ttttaattaat 480
ggggattata gtcttccttc ataaatgcat ttaaacctga aattgaacac cagtgttttt 540
ctttttctac ttatgggaag ttgtctgctt ccccttttag agaaaacagt atttttatat 600
tttgttaaaa tattaactac tttatgccta cacactatgc tgtagatact gatcataatt 660

```

420

```

cttgggtgtt cacaacact cctagwgcct cttttttggc ccgttgaaag tgttggtatt 720
actactttca ctacagagcc tttggnccct taataatgct gaggtgggct gatccttccc 780
mtttctgtcy tcgggtcatt ctgggtaggg tcttctcctc cactgtcaag gtaaggcaat 840
cagggtcctg gacaggggat tgggacatat ggaacaaatt aagggtggat acacacagt 900
aggaaagggt acatggcatt ctatggggaa ccaactactg tncaataaca tctgatgtta 960
acatggcaca tta 973

```

<210> 601

<211> 1473

<212> DNA

<213> Homo sapiens

<400> 601

```

ttgagactga ctactgagtc taccttttta atcaagccta acatgaatgg gctccaaaaa 60
gtaatgaatg taattgtact ttttgatgtg cctctgcact tggcttggtg agtcatcata 120
aatagctgtt aaatatgtga ctttacagat tttgatatgt tcagattgta aaaaatgaat 180
agtttatttc attaatgat gggcagtcac gaatctccct cccttcagta gggctgacac 240
ttaggagtta ggtcatggtt gtggttactt ggcattggta atcagatttt gttctggtca 300
gaatttgccc aagatcaata cccagcagaa actggagtta ggctataaaa aaccattcat 360
gtttccgagt gatcatttca gtcagcgatt catgttttac agtggttagt tgttgattat 420
tagaaaaagt aatattttct tccctttatg attacatcat tataaatcaa gtccttccat 480
gaacacattt aagggtgtgtg gagatgagat gtctgaatcc atttggggat gggctgcatt 540
tttgggggaa tctatgcctg tccagtgaag agtgccataaa acattaatta tagatcaaag 600
atgttctgtt gagggacaaa gcttgatggt catcaaacac aaggctttgt aaaaatacga 660
ccacctattc cacttactgg atctgtcagg tgtgtaaaac ttctctcgcc agttcatcat 720
gcttccatga gccctcagga ctgggatttg agccttcttg gctctttatc ccttggggca 780
gacatggaac catctctgag ggaccaggtg gatgctgaag ctacccagc cagggcccct 840
ctcctagctc cttttacact gaaattaatc tgaaagcttt catagccaag gctttgctag 900
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aattgtttga attgtatctt tctctgtatg ttaaaccaga tttaaaacta ttttataacc 1080
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tttgggagtg acttaaggcc ttttgaagtg gagcttttgc actttatact ttttctgtga 1260
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acatgtttgt gtctatttcc aaaatgattt ctgaactatc tgcagtgaag atgtatctga 1380
tggattgtag agcaaagcac attgcctaaa ttcatttgtt aatgaattgg gtaccattgt 1440
tattaaaaat gcgtaaagta aaaaaaaaaa aaa 1473

```

<210> 602

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

421

<222> (481)

<223> n equals a,t,g, or c

<400> 602

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gccttcacat tggctttccg gggcttaaaa gcatatcatt cctgattctg cagctgggtc 60
tctctccaag cactagcaaa accctgccct aggagccccc agactctgag agcccatgac 120
caaaaagaaa aggaaagcca agttggggaa gaacagggcc cccaactcca cagccctcca 180
ctctssccag agggcccacc ctgggctgccc tggaaacccc taaagttgcc acccccgcaa 240
cacagtagtg gggcagttcc tggcagcgcc tgcagcccat gggctggctc tgtaccgcga 300
gccccgcaa gcgtctgtta tcttattttac tggaatctgc acagccaggc tctagctcac 360
cggtgactaa ggagctgcag ccattattac caggcagatg gcagactccc taaaagcaga 420
cattaacaaa taaaatgccca ccacatacct tgcccacaaa ataaaatcaa aacaaaccan 480
n 481

```

<210> 603

<211> 1667

<212> DNA

<213> Homo sapiens

<400> 603

```

gggaattatt tcacaatact gatagtactg ggaattgtka aataattcct ctgaaagata 60
agaatcactg gcttctatgc gcttcttttc tctcatcatc atgttctttt accccagttt 120
ccttacattt ttttaaatgt tttcagagtt tgtttttttt ttagttttaga ttgtgaggca 180
attattaaat caaaattaat tcatccaata cccctttact agaagtttta ctagaaaatg 240
tattacattt tattttttct taatccagtt ctgcaaaaat gacctataaa tttattcatg 300
tacaattttg gttacttgaa ttgttaaaga aaacattggt tttgactatg ggagtcaact 360
caacatggca gaaccatttt tgagatgatg atacaacagg tagtgaaaca gcttaagaat 420
tccaaaaaaa aaaaaaaaaa aaaaaaaaaa gmaaactggg tttgggcttt gctttaggta 480
tacttgattt agaatgagtt taacattagc taaaactgct ttgagttggt tggatgatta 540
agagattgcc atttttatct tggagaact agtggtaaaa catccaagag cactaggatt 600
gtgatacaga atttgtgagg tttggtggat ccacgccccct ctccccact ttcccatgat 660
gaaatatcac taataaatcc tgtatattta gatattatgc tagccatgta atcagattta 720
tttaattggg tggggcaggt gtgtattttac tttagaaaaa atgaaaaaga caagatttat 780
gagaaatatt tgaaggcagt acactctggc caactgttac cagttggtat ttctacaagt 840
tcagaatatt ttaaacctga tttactagac ctgggaattt tcaacatggt ctaattattt 900
actcaaagac atagatgtga aaattttagg caaccttcta aatctttttc accatggatg 960
aaactataac ttaaagaata atacttagaa ggggttaattg gaaatcagag tttgaaataa 1020
aacttggacc actttgtata cactcttctc acttgacatt ttagctatat aatatgtact 1080
ttgagtataa catcaagctt taacaaatat ttaaagacaa aaaaatcacg tcagtaaaat 1140
actaaaaggc tcatttttat atttgtttta gatgttttaa atagttgcaa tggattaaaa 1200
atgatgattt aaaatgttgc ttgtaataca gttttgcctg cttaaattctc cacattttgt 1260
aacctgtttt atttcttttg gtgtaaagcg tttttgctta gtatttgtat attgtatatg 1320
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tcttaagtac tgtagaaaag atgtcacttc ttcctttaag gctgttttgt aatatatata 1500
aggactggaa ttgtgttttt aaagaaaagc attcaagtat gacaatatac tatctgtgtt 1560
ttcaccattc aaagtgtgtt ttagtagttg aaacttaaac tatttaatgt catttaataa 1620
agtgaccaa atgtgaaaaa aaaaaaaaaa raaaaaaa aaaaaaa 1667

```

<210> 604

<211> 1193

422

<212> DNA

<213> Homo sapiens

<400> 604

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ctaacgtatt catgccttgt atttgtacag cattaatctg gtaattgatt attttaatgt 60
aaccttgcta aaggagtgat ttctatttcc tttcttaaag aggaggaaca agaagatgag 120
gaagaaatcg atgttggttc tgtggaaaag aggaggctc ctggcaaaaag gtcagagtct 180
ggatcacctt ctgctggagg ccacagcaaa cctcctcaca gccactggg cctcaagagg 240
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cctgctgcca agaggggtcaa gttggacagt gtcagagtcc tgagacagat cagcaacaac 360
cgaaaatgca ccagccccag gtcctcggac accgaggaga atgtcaagag gcgaacacac 420
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ttgcggaaac gacgagaaca gttgaaacac aaacttgaac agctacggaa ctcttggtgcg 660
taaggaaaaa taaggaaaaa gattccttct aacagaaatg tcctgagcaa tcacctatga 720
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aagatttagc cataatgtaa actgcctcaa attggacttt gggcataaaa gaactttttt 840
atgcttacca tctttttttt ttctttaaca gatttgtatt taagaattgt ttttaaaaaa 900
ttttaagatt tacacaatgt ttctctgtaa atattgccat taaatgtaaa taactttaat 960
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tctattgttt ttagaaaaaa taaaataact ggcaaatata tcattgagcc aaatcttaaa 1140
aaaaaaaaaa aaaaggtcga gccggccggc taattagtag tagtaggcgc cgc 1193

```

<210> 605

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 605

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aatgccaaaa gtacttcccc tgtttccaca agctcgttta catcctcagc ccttgagaag 60
cccagtcagg aagcataacc tgatagcttg ggctgatgca atmacagaaa ctctggcctg 120
ctgtagcttt tgttctgctt aaagtgcagg cagagcagag cagagcagta attggctgtg 180
aatgaaaggg gattgtcaga atgagcctaa gttccggwtc taccaccgca gtttcgtatt 240
tgggccctgt tttaagccag ggtggctggg ttggtgaagg catgtgagc ctcaggaggc 300

```


423

tgtcttgtca cctccctcat gtcaatagga agggaggtat tctccctcct ccagaatata 360
 caggataatc tgtcttgctt gctaanagca ttcacctttg acctttgcat tctttgggtc 420
 tggagatgtn tatgatch 438

<210> 606

<211> 2674

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1782)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1923)

<223> n equals a,t,g, or c

<400> 606

gttcgscgc acagcagccc gagcgcccc tttccrgagc tccccctccg agctgggac 60
 caggcgcgta gmggnatccc aggatecctgg gtgctgtctg ggcccgcctc ccaccatgac 120
 ctectcgggg cctggacccc ggttccctgct gctgctgccc ctgctgctgc cccctgcggc 180
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 gaacagttgg tggaggacag aagggtccggt ggttaaagaa ggaaatggag aaatacgtc 420
 accgggagga tatgatcatc atgtttgtgg atagctacga cgtgattctg gccggcagcc 480
 ccacagagct gctgaagaag ttcgtccaga gtggcagccg cctgctcttc tctgcagaga 540
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 gtttctcaa ttctggtgga ttcatcggtt ttgccaccac catccaccaaa atcgtgcgccc 660
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 caggactgag ggagaaactc agccttaatc tggatcataa gtctcggatc tttcagaacc 780
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 acgtggccta cgacacgctc cccattgtgg tccatggaaa cgggtcccact aagctgcagc 900
 tcaactacct gggaaactac gtccccaatg gctggactcc tgagggaggc tgtggcttct 960
 gcaaccagga ccggaggaca ctcccggggg ggcagcctcc cccccgggtg tttctggccg 1020
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 actatcccc cgacagggtc acccttttcc tgcacaacaa cgaggtcttc catgaacccc 1140
 acatcgctga ctctgggccc cagctccagg accacttctc agctgtgaag ctctgggggc 1200
 cggaggaggc tctgagccca ggcgaggcca gggacatggc catggacctg tgtcggcagg 1260

424

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accccgagtg  tgagttctac  ttcagcctgg  acgccgacgc  tgtcctcacc  aacctgcaga  1320
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gcaagctgtg  gtccaacttc  tggggcgccc  tgagccccga  tgagtactac  gcccgcctcg  1440
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cccaggccta  tgtgatccgg  ggtgataccc  tgcggatgga  gctgccccag  agggatgtgt  1560
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cagagatgga  gcaytacggc  cagtggtcag  gcggccggca  tgaggattca  aggctggctg  1920
gangctacga  gaatgtgccc  accgtggaca  tccacatgaa  gcagggtggg  tacgaggacc  1980
agtggctgca  gctgctgctg  acgtatgtgg  gccccatgac  cgagagcctg  tttcccgggt  2040
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gagttggggg  atgggtctct  ctgtctcccc  acttcctgag  ttcatgttcc  gcgtgcctga  2460
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taaattatta  atgttccgca  gtctcactct  gaataaagga  cagtttgtaa  aaaaaaaaaa  2640
aaaaagggcg  rccgctcgcg  atctagaact  agtc  2674

```

<210> 607

<211> 1609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1593)

<223> n equals a,t,g, or c

<400> 607

```

cgggtcgacc  cagcgctccg  cggacgcgtg  ggtgtcgatg  aaatcaagag  tgtgatgttc  60
tagttatttt  tttttatata  tattttttaa  tgttcaatat  tcaactattg  aaacaaatgt  120
acatctgtga  actagctaaa  atcatcttat  gtaccactaa  tatgcccgag  acattttgta  180
aaacagtcct  gatttgacct  ccaaggggat  ttattgaact  accagcagta  tctaggagac  240
cacgaaggaa  taccacgaag  gaatttatgc  tccagtgcct  gccataattt  gtctgagaag  300
gaatctgtta  aataaaaagc  tttatcctct  aacctttacc  ttcacagac  cttataaaaag  360
gtcaaatggt  gatcttaagt  tttttagtca  caaatcttac  ttattcagta  ttagtgcgaa  420
gagtagaata  ctttcaagta  agcctaaact  tacatgaaam  caaattacat  aaatctagct  480
ctgagaatag  gaaattagtg  acaagatcaa  tctgtaagat  gttgagcact  tatctgaagt  540
aaatgggtaa  tgagtttcac  atcttataaa  tacaagttag  catgtgtttt  ctcaagagtc  600
caagggtttt  cattattgga  ctacagcttt  aatcttctaa  atgttattcc  ccaagattaa  660
agagcatctc  aagttagatc  accaaagatc  aaaagctaaa  accagaagta  tttttgtcat  720
tgtgggtggt  gtagtggttac  taattgccta  gattttttaa  gggaaacatt  tttttcactg  780
ggttgtttcg  ttgaaaaaaa  tagaagcaga  aacttgccca  aagtcacagt  ggtcaaactg  840
gaaattgcac  caaaacttgg  catactgggt  ctgaaatcca  tagtttttag  ccttatgtat  900

```

425

```

actggttaat ttggaaggaa gaaatatata cgttctgaag tgaagagtga gtgaaaggaa 960
gaattcagtg aatacattga taccttgata ttatctgcat tgtggctaca tgttactttt 1020
cttcacaaga gtgatataag tgaaataaag aatgattgga ctgggaraaa aatggctcag 1080
aaaactttgc aaaagtayga ctgtatgtaa agataagtat tcaacattaa atgggaaggaa 1140
ggagagcaag cagttttaata tatagaattt tataaatttta ggctgcaag ggaccttata 1200
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ctctgtcctt cctctattct aagcacccta ctctagcccg gctgctctga gttcagtttg 1320
ttacaaatat ggacacgaaa gtaccacagg ctttgcacag ctttaattgaa gtttccctt 1380
cacaccatgg taaaaaaaca tactgggatg gaagggtttg tgtctagaac argaacaaga 1440
aataaactct tggtcactta ctaatatattc aaaatcacaa agcagaattt tgcttggatg 1500
kttaktaaaa catccttgga aatttaactg cttgcagctt ctaccttytt cattaatatgc 1560
tgtctggcta ataaaaagtg ccatgtgcag ctntatttta atttcaatt 1609

```

<210> 608

<211> 920

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<400> 608

```

gacacgaagt ccgagaaatt gagcagcgac atatcaacac taccaaaaat aatccagtga 60
tgtcattgca agatcagggt cgctttgtaa agaataaac ttcttgaaa gagatgaaac 120
caggatttta tcatggacac gtttcttact tggattttgc aaaatttggg gtgaagaaag 180
aaaccaattt acattaatgt cntaagggat cctattgaga ggctagtttc ttattattac 240
tttctgagat ytggagatga ttatagacca gggttacgga gacgaaaaca aggagacaaa 300
aagacctttg atgaatgtgt agcagaaggt ggctcagact gtgctccaga gaagctcttg 360
cttcaaattc cgttcttctg tggccatagc tccgaatgct ggtaggggag ataaagttag 420
ctcagattga ttatcatcct tattatctct ataatctgtg tttcatttca caagggctag 480
atatagggaa atcggtgaaa gactagacta aaaataacat gtaattcagt aatatctagt 540
tttgcagtta ctttttaaag catttaaaag attcctcatg tagagtgata tcctaataatc 600
cttgcaattg tttctgagat gccgggtttt agtatttctt atttttgggt ttatgttttg 660
ctgtattcca gcagagctct tagagactgg ggggtggggg gggkgtcata aatcttattt 720
tgtccaaagc ttactgtttt agctattcat gttaaattaa gaaaaggctt agtgggttaa 780
aattcacctg gttttactgt taaactgatt ttgactttaa gagaagccaa ggttatggct 840
gtgggttagt ttgctagtaa atatcaagtg gaaaataaag atactttaat aaaaactgta 900
tttctcmeta aaaaaaaaaa 920

```

<210> 609

<211> 283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

426

<400> 609

```

acgcccgcag gtaccgggtcc ggaattcccg ggtcgaccca cgcgtccgaa ggaagaagg 60
gggaaacctc aaatgaattc tgaaggggag ataccttccc tgccatcagg cagccaatct 120
gcaaaaccag taagccagcc caggaaatca acccagccag atgtttgtgc ctctcctcaa 180
gaaaagccac tcaggactct gtttcaccaa cctgaggaag agatagaaga tgggtggactc 240
ttcattccaa tggaagacaa gacaatgaag aaagtgagaa aag 283

```

<210> 610

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 610

```

aaagcccaac ncccccgtaa acccagaatc tcccatatgg taacctgtgt gatgctccgg 60
attctcctcg ccagtggaag gcatcaaggg aagatagtg tttatttagt cctattcgat 120
cctctgcttt tagtcctctt ggaggctgta ctccagctga atgtttttgc caaacagata 180
ttggtggaga taggattcat gaaaatcatg attctgttta ttacacctat gaagactatg 240
caaaaagcat ttcatgtgaa gtactaggct cagttcttcg taccaccat actaatatcc 300
tatcaaatat taacagtatt aaacatggag aaaataaaaac tgtaactttt aagcatggaa 360
accttgatca aaaaaataaa tctaaaaata aatccttaat gaaaaaaaaa nattaanaaa 420
aaagggcggt cgctctagag gatccaagct tacgtacgcg tgcntgcgac gacatagctc 480
ttctatagtg tcacctaa 498

```

<210> 611

<211> 1069

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (176)

427

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1060)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 611

```

cctttgaaat acccctcact aaaggggaaca aaagctggag ctccaccgcg gtggcgggccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgagcggca cgaggtatcc 120
acagggccac agcgacacca ctgtggctat ctccacgtcc actgtcctgc tgtgtnggct 180
gagcgctgtg tctctcctgg catgctacck caagtcaagg caaactcccc cgctggccag 240
cgttgaaatg gaagccatgg aggctctgcc ggtgacttgg gggaccagca gcagagatga 300
agacttgga aactgctctc accacctatg aaactcgggg aaaccagccc agctaagtcc 360
ggagtgaagg agcctctctg ctttagctaa agacgactga gaagaggtgc aaggaagcgg 420
gctccaggag caagctcacc aggcctctca gaagtcccag caggatctca cggactgccg 480
ggtcggcgcc tcctgcgcga gggagcagg tctccgcatt cccatgggca ccacctgcct 540
gcctgtcgtg ccttggaccc agggcccagc ttcccaggag agaccaaagg cttctgagca 600
ggatttttat ttcattacag tgtgagctgc ctggaataca tgtggtaatg aaataaaaac 660
cctgccccga atcttcctgc cctcactcta actttcagtt cacagagaaa agtgacatac 720
ccaaagctct ctgtcaatta caaggcttct cctggcgtgg gagacgtcta caggaagac 780
accagcgttt gggcttctaa ccacctgtc tccagctgct ctgcacacat ggacagggac 840
ctgggaaagg tgggagagat gctgagccca gcgaatctc tccattgaag gattcaggaa 900
gaagaaaact caactcagtg ccattttacg aatatatgcg tttatattta tacttccttg 960
tctattatat ctatacattha tatattatth gtattttgac attgtacctt gtataaacia 1020
aataaaacat ctattttcaa aaaaaaaaaa aaaaaaaatn nctgcggcc 1069

```

<210> 612

<211> 899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<400> 612

```

gctttgtatt gcttatattg catctgagat tgtttgtatc ttttttcctt gactagtctt 60
gctagagggt tatcatattt attgtttttg ctttacaaag aagccaatat ttttgnnttt 120
cttctttgtt atattttctc tattttggtg atttcagctt tttcttttct atgttaatat 180
gtcatattat tgtagtggat ggtagctct tcaaattttc aactttctat tctgattttac 240
atatttaaag ctatagattt ccatgataat gctactttat ctcttgctgt agttttctat 300
gctgggtaac aaattaccac aggtttactg gtttataaca gcataatttt attatctcac 360
aatttcttgg gggttaagagt ttcagcatgg cttaactggg tctcacaagg ctgcagtga 420
gtcagctgaa ctryrttgtc atctggagct cacagttctc ttctaaatta atcagattgt 480

```

428

```

tgataaaact tagttccttg aagctgtaga actgaggtcc tcagctactt agggctgctc 540
ttttatataa gcagtgtaac gtgacatgcc tttttaaggt cagcagaact tctgactaga 600
atctgtttca gagaaggcca gaaagagttc acttggttag gtcagagwca cctgggatag 660
tctccctttt gattaagtca gagtcaacta aataggcacc ttaattgcat ctgcaaaatc 720
ctttcacttt tgccatattc tcttactaaa tgtaacaggc gttgtccaca caaaggtagt 780
gatatcgggc ttggaaagga tttcaggaac catcttagaa ttctgcctac tactaactcc 840
attctacaag tctcaatatc tagcatttta gttatttact aactgcaaag ttttttatt 899

```

<210> 613

<211> 532

<212> DNA

<213> Homo sapiens

<400> 613

```

gaacactaaa cagactattt aacttgaggg taataaactt agaataaaat tgtaaaattg 60
tatagagata tgcagaagga agggcatcct tctgcctttt ttattttttt aagctgtaaa 120
aagagagaaa acttattttga gtgattatgt gttatttgta cagttcagtt cctcttttga 180
tggaatttgt aagtttatgt cttaaagagct ttagtcctag aggacctgag tctgctatat 240
tttcatgact tttccatgta tctacctcac tattcaagta ttaggggtaa tatattgctg 300
ctggtaattt gtatctgaag gagattttcc ttctacacc cttggacttg aggattttga 360
gtatctcgga cctttcagct gtgaacatgg actcttcccc cactcctctt atttgctcac 420
acggggtatt ttaggcaggg atttgaggag cagcttcagt tgttttcccg agcaaagtct 480
aaagtttaca gtaataaaat tgtttgacca tgaaaaaaaa aaaaagtcga cg 532

```

<210> 614

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<400> 614

```

gctttgaaac caattgcaga ttgcttggtt ttatacaaac tttgattagt ctttggcagt 60
agaaggcagt ttgctaaagt ggcttttacac ttgggattat gctgtttctt tggtgataca 120
taaagttcac attttttttt ttataacttc atggtcaaga gcttggaag aaagcccaag 180
tctcacttga ggacctgatg taattgcttc tctttgagct ccgaagaaaa gattgaggag 240
ctgctctttt gatttgggga gtgagcaggt taagtgtctt tactttactt tgscacccty 300
gtacagacaa agtccggtta caaaggcggg taactccaat gtgctattct ttttttytta 360

```

429

```

ccagcttttac tggggataat gcacatactg tacaattcac ccacttaaag tgtacaattc 420
agtggggtttt agttttattca tgggggttgt gcaacccttn accataaatc tatttttagg 480
ggcacttttc atcatctcag ggnggaancc t 511

```

<210> 615

<211> 505

<212> DNA

<213> Homo sapiens

<400> 615

```

gctcggcgag atccagtgca cagcttgctt cactcttaga acagcggcat cctctatttg 60
gtctcgcacg gggaacttgc tggggtaggg gagaggtgtt agagctttga aaaagctttg 120
cctctcggag gagtcaaagg ggcagtaact gtatgggggtg agaggaaggc ctgcgaaata 180
aaaaggcaaaa ggaaccgttt gaggaggcta gttgccttct cggggccggg gtgtgtgctg 240
gggtagtggt aagggggagg aaggagcccg kgagcccga ggaccctccc ggaggtgctg 300
gcctgaaatt ccgctgggtg ccgggaggct ccgccctccg gactactgac ggccttcgca 360
gccaatgcgc agccaggacc tcgcgttcgg gagggcgggt acttctact ccagccctgg 420
gctcggagaa ggccgcgtta gttctttttc tagggatgtc tgcggaaggg gcgccaggct 480
gagggccagc ctggagaaag aaaga 505

```

<210> 616

<211> 778

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (226)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<400> 616

```

tagggttcta ggcccctgtt cctggggact tgaaggcggg tttacatact ggtcagacac 60
ggctggaggc caaggtcaag ttgaaagtgt cagtccagcc agcatgagaa ctgccatgcg 120
agcgtagaga cacaggcagc agcaaaaagg ccattgccc catccctca ctcttaattt 180
tctctctctt tttaaaattc tcgcctctga ctgttcgggt gcccanaatt ttttggtgcc 240
ttcgtggggg ttntggggcg gtgtttaccg actcttctct gcctccgcc tgctcagcca 300
gggctttgag cctcttcggg tttccggcca gaccggaaa aacgaaaaca cagcttgggg 360
agccccact agccggcgcc tgtgccagct cacctctggc catggcgag ctgccggtgc 420
acacggcggc caaggccagc tccacattct tccctcccc tcccattca ccgtagcccc 480
gaaccctgcg cgcagagaaa gggctctcagc tccacagac actgggtccc tcctcaccaa 540
aaatggtgag acaagatttc atctgtcggc cgaggagcca caagcagggt tgtctgagag 600
ggatggtgct gggggaaggc tttggattgc atctcaaatt aagctttgct ccttaaattgt 660
ggcgtctcgc caagaaaaag cttggggcct gaattcttga gatttatggt gcaccttatt 720
gatcaaatat atctggactt ttttttagtt cccgatgtgt ccctatcatt aaaaaaaaa 778

```

<210> 617

430

<211> 750

<212> DNA

<213> Homo sapiens

<400> 617

```

acccacgcgt ccgttaaaac gtcataaactt aaatatcaaa attaaaaata aatcaataaa 60
atagcatttt aggacatgct gttttgaatt catgccttcc ctttccattt tgttgatcat 120
cactgtttta gattcttaac ctctataaac tcttataaaa attggccact gcacccagcc 180
taggggtttt ctttttgagg tgataaaaat gttctaaagt ttatagtgat gatgcttgca 240
atttctataa gtagacttaa tgcagtgatg gttgcaaatt ctataaatat atttaatgtg 300
gtgatggttg caaattctat gaaaaaccca aattgtacaa tttcaatgag tgaaagcatg 360
ctatgtgaat gtcttcataa aggttttatt taaaaaatga gcaaacggta gaatgttaac 420
atggccacag tctatgtggg gtctatattg gtttctatta tatgttttct atgtggttga 480
aacattccta ataaaatgtg catagttttt taaaaaaraa aacacatcag tggacgtgaa 540
tgcaggatgt cttatgaatg ctcacacaga agctcccatc cgtgaggaat gcagggaaaa 600
gcagaagatg gagtaggagt tggcatggcc cagctagctc agatgacaca cgatgggtccc 660
agtggcatga cttggtttgt gtgatttgtg ccttgggggtt ttattttggc acattataaa 720
ggagtaaata aagcctgtat acagtcaaaa 750

```

<210> 618

<211> 451

<212> DNA

<213> Homo sapiens

<400> 618

```

gcggccgcag tggaaggagc aggcgcttga gctcgagcga cggcgctggc ggagacgccg 60
gctgtctctc ccctccccgc cggtagtgta gcgccccgc cccggacgct ggcggcggtc 120
gcggccccct cacggccctc cgcggtgggt ggggacagtc gtgagggagc gtggcctggc 180
ggcgcakcgg acgcgggcct ggccctccgc tcgcggcctg tcggggctgg gacctgccgt 240
cgcccccggt cgaggttgaa gccccgggcc taggactcga cccccagcat cccacggggc 300
ctctttcctt tcccggctca ttccgctgtc attttgacct ggggttcccc tccaagcccc 360
tcgccttcgt tcccttccca agcatcccag ggccgaggtt gagggagggg cgtgtgagaa 420
gtcgggccga ggmccgaggga ctgtttaagg a 451

```

<210> 619

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 619

```

aagagaaaga taccatttga gactccagaa tctgcctcta actctcaaca agactctgca 60
attactcaag tatcctttcc atcctcattg ccctgctgtt attacatagg ccctggttca 120
agtccttggt acttgttccc attattgcaa taacttctaa ttccaatgcc gttgtgtgat 180
ccatttttaa acacggccag agcagtcttc caacaacata gctctaactt agtttcatcc 240
ccacttttac atgcytcagt ggctttccca gtgacttggc atggaacacg tcctcagttg 300
ccatacattc cagctaactc ttacccaacc tttctttgtt cacacagttt ccttttcctt 360
cctcattgac ccatccgcat ctctgtttat ccaagacttc tctgtgatag ctgaccctta 420
gtctttctct cccctattcc tccagactag atcctgtctc cttcctgcag ccccgacaca 480
gccttcagtt catatctttt gcatgatgct tagcaccttc tatccctaag gacaacttac 540
tcatttgaga tttctggcag ggtaccttgc atgcagtggg cactcagtat ttgctgaatt 600
aaattccttc ctatggatcc cttctgattt tttttaagtg cctctaatac acatatcatt 660

```


431

```

ctagggctca tggcactttt aatgtcattt tctaaaggaa aatcttatct atgatatttt 720
cccttataag agatagttgt tttgagtagg gttttttaaa agataaagggt agtaggaaat 780
tttttaaagc ctaaatatca aattcctttc ccttttgagt tgggggaagk aatgaagggg 840
gagcaacttg ctctttcata tgagttgggc atagcatgta agaaccaatc ttgaaatata 900
gttttttttt taatggctta taatgtattt ctagaaatac tttgtactta aaatgataac 960
agtttgtatc tttttgtcca tataaagata ctttataaat aaaaaaatta gcattgtaaa 1020
taatgttaat atgtatttat acaaaataaa tttactataa tataaaaaaa aaaaaaaaaa 1080

```

<210> 620

<211> 823

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (717)

<223> n equals a,t,g, or c

<400> 620

```

ggagggtttcc tttgtccatt aagcaagccc caagaaccag aacccttttg ctgcttttct 60
tacataccta acagctctcc agtcatgatg accaagggtg ttcttcaatc aaatgtgttt 120
gwgggatttt cagtccgcaa atgaagtgct ctctaataa tgggacacca tgataaatat 180
gtattttatat ttagatgcca aagtatggcm aattatttcc aaatgataac tacaaatggg 240
aattttcgat attctacctt ttttatagaa ccagctcact tttcatttct ttttcatttt 300
gaattaagaa aattgktgag gatgtgggtg gttccagtgt gtggaatgga aaggaaactg 360
cagaatagtg tctgctcccc attcagaggg actgcttctt gtgcccccca gaccgggggc 420
ttcgacagct tctccacatt ccacacagat gcctaggagc agcgagttgg tatatgaaaa 480
gtctccacc ttttctccta aaacttctct cttttctctc cataaaaaga aaaggaaagg 540
aacaaaagaa aaacattcag tttttctttt tctgaaaaag gtaagtcctt tcttgaagtc 600
atcaaatgaa acattatctg gaaattagtt tctaagtgtg tatatnaaga aatacttaaa 660
tataagttcc tgcagtattt attagatagt tgtaactgna aactcacctc ctagtanata 720
agagtttcag gttaaatact ggaacatata taggcagtca aaaatactac tttaaatgca 780
ttcacctaata ttaaagccat ggtttaacac tttttaaggc caa 823

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<210> 621

<211> 720

<212> DNA

<213> Homo sapiens

<400> 621

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gctctaattgg aggaaacagt caacatgcaa aaatagatgt gtaatgtaag aagagtgatg 60

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432

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gaaactctag gaaacaatca aaaggaaatg ctagaaataa taaaaatcac tgacataaat 120
aaagaatgtc ttcaataggt tcatcaacag aacaagtttg aggaaagaat gagtaagctt 180
gaagataagt caacagaaat aatttcgaaa gtataatata catctatttg gaataccaga 240
aggagaagaa caagaacaag aaactaaaga aatatttgaa gtaacactgt cagaggattt 300
tcccaaatta accacagcaa mtcacaagtc aagaagtaga gaacagtaaa caggagaaat 360
acaaaaacaa ttatacacia acttcagaaa accaaagaca aaaagaaaaat cttcaaagga 420
gtcagagaaaa aagtaacctg acttacagca aaacaggaca agaattaaat tagacttccc 480
atcagaaaca cagaagcaag aagactggag tgaagtattt aaatgctaaa ataaagaaaa 540
aaaatacaaaa cttgagaaat aaagacttcc tcagacaaat gctgagggaa ataataacca 600
tcagaccttc cctgtaagaa aatattaaaa gaagttctca cggaaaagga aggtgataaa 660
gttcagaaac tcaaatctgc gtaacaaagg aagagtgcga aagaaggaat aaataaaggt 720

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<210> 622

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 622

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gccaccagta cctagccaaa gttagtttta atgtgagagt caaggactac agtggcatgc 60
tgaggtaaca actgcaggag catcgaggta acagcaaaaa tcttttactc caattgggtc 120
aatccagtta accatgtaag aaactcctca cctaggggtca gtatgttact tctgtatttc 180
tgcaagcaca atccactgac ataaaagtct aataattaga ctttattgta agtctaattgt 240
atcttgtaca tgataaaatg tatgaacttt ggatcaatat ggcaagctga agacacctgt 300
catgtggggg gactattttg tttgggttct an 332

```

<210> 623

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<220>

433

<221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (504)
 <223> n equals a,t,g, or c

<400> 623
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 tcaaaaaata cttttnaaat gacttttttg gtttggaag tacctttaat acatttaagc 120
 tagttttcct cctggaaata tttagaattt ctcccttaat tggcaacctt tatagaagtc 180
 tggtaagatt tgtcgcaaag atgtgccaca gatggacaca aatttcccat tcgggagcaa 240
 tatcttacca cagtgggtggc taaatgctag ggacaaaata caaggccgga actttccttc 300
 cctcagatac cttgtgctgt ggtgttttgt tgccactttc tccctctcat tttcaattat 360
 atgcacaatc ttccctttct agagtatgac tttggccaga tgactcacct gatgccacct 420
 aagggcattg cctggccagg tacattttctc tggctccagc cttggctaag ntgatgacct 480
 gagtcgatct ncacattcat ntcntgaacg 510

<210> 624
 <211> 653
 <212> DNA
 <213> Homo sapiens

<400> 624
 gtttttttat ggaaagaaca taaacatagt tttctaattt ggagaaatcg gtcttaatgc 60
 aagtaggcat tttaaaatta catttatgaa ttatttttag accctacata atctttttta 120
 ttctgcaatg ttaaacaggt tctctagaaa atctgttttt gtttcctagt gactattaaa 180
 ctattctctc ctacaacagt aatattttatg ctataaattt aaatcatcat ttttgttttg 240
 attgattata agatatatgt tttattatca tgtagcctag ttttaagagtc ctcaatatwt 300
 ctgaagtttt agtgattctg ctgagagaga gcatagaaaa aaataagaaa aaaaaaacca 360
 acctagtatc tgttgktcag tagattgtag gtacttctgt ttatagaaat aataagggga 420
 aaatgggtat tttagaatga ggatcttttg tgtkgtkacct cttgcttctc ttttatttga 480
 ataataaagg raataacatc aaattaatgt ttarcctact ttartatgga tattgaagtt 540
 aaaatgtcat tcattttgcat ttatttagga aaagaagata tgcttcttaa acaagggtcag 600
 atgtatatgg cagactcaca gtgtacttcc ccagggtatc caggcccaat gca 653

<210> 625
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 625
 gagacagagc aagatgcctt caggaggaat ctctggccgt cttcttttgt aatatccaaa 60
 gagcttttgt cagcgttgat atcaaagcgg tgtgaagaaa acataaggcc ataagactaa 120
 tctctggaga gctgcacact gaaggggaac mtaagttctt gagtccctgg agtaccctaa 180
 gtktggttcc agagaggggtg ccattcatga gcaacactgc tagccattag tggccagcaa 240
 gaaggggagt gaaaggagta tcttgtatag ggtgacttgg gtaatatgaa attgctgtca 300
 tcaaggttta tcaaaamacc aaaggttaaa tattacatgt aggcaatgtg aggctgcccc 360
 aaatggtgtg tttcccagga acttgattca actctgagaa taaatgcatg agtactgaga 420

434

a

421

<210> 626
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 626
 tcgaaccttt tggatctctg tcagaaatga atgtttatct ctttcaagtt ttatcaagta 60
 ttaatacgtt ttatttatat tcttttaaat gttttattca gtagttctgt gaacttcaga 120
 ctttggtgtt cagcctaata gtatgcttct gtaacttcta cacattttat aagaactcat 180
 tcaaagttgt agtccctacca tagtgtttca ggggttcctg ttgtgtacac ttttactata 240
 atggcaaaat gtttcaaaat cattcagctt tttaaagaaa cttattatgc aaaagacact 300
 cttgaaatgc tgtgcatttg agctgaagtg aaagaatttg tttcatgttg tactttgcat 360
 tattttaagt tttcacatct ttaatatgct tttctatgct aattatatta gaaatctata 420
 aatataagtg gtttctttgt ttaaactagt cattaataat taggttgaaa atgaaaaaaaa 480
 aaaaaaaaaa aaaaaaaaaa 500

<210> 627
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 627
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 tcctctgtgg ctactctccc atcttaaaaa cgatccaagt ggtccttttc ctccctccctg 120
 cccctacccc cacacatctc gttttccagt gcgacagcaa gttcagcgct tccaggactt 180
 ggctctgctc tcaactcctg aacccttaaa agaaaaagct gggtttgagc tatttgctt 240
 tgagtcattg agacacaaaa ggtatttagg gtacagatct agaagaagag agagaacacc 300
 tagatccaac tgacccagga gatctygggc tggcctctag tccyctccc tcaatcttaa 360
 agctacagtg atgtggcaag tggatttag ctggtgtggt tttctgctc tttctggtca 420
 tgttgattct gttctttcga tactccagcc cccagggag tgagtttctc tgtctgtgct 480
 gggtttgata tctatgttca aatcttatta aattgccttc aaaaaaaaaa aaaaaagggc 540
 ggccg 545

<210> 628
 <211> 679
 <212> DNA
 <213> Homo sapiens

<400> 628
 ccccggtttt aaaagatcag tagtctctat tcaaactttt aaaatgtcgt ggtattgtaa 60
 caatatattt gatgaaagaa ggttacagac tcccctgaag aaccagcttt cctacgcttt 120
 ttatttttct aacttgctta acctgatttt aaaatgactg caattccaga ctaaaaacat 180
 gcttcagccc tgtttcaaga cattatgctt cttttaacag tccaaattag tagttttatt 240
 tttcttctaa atctttgttt cacacttgta aaatcttggg aaggagggtt ttaaaacttt 300
 gccaggaatt gttaccatt tccaaaaaca gtttattatg ttcaaaaacc accatatctt 360
 tgaggggactg tttgaaagg gagagggcaa cgcgggaaat aattcactct gcgcaccgga 420
 actattgtag ttcaggactt ccagctactg tatttagatg ttgggtttga atatacagat 480
 ttcttttcaa tacctgtaaa tatggctata ttcttgatt tgtacgggag tgtacaaaat 540
 gacactgaaa agtaataaat atgttttgac tataattgtgc agttatttca gaactgtgtt 600

435

ttgaaagtct tagaatgcat aatttgcatt tgagtaagga aattttaaata acagattact 660
 gctgagattt taaaaaaaaa 679

<210> 629
 <211> 905
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (165)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (793)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (803)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (816)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (843)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (869)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (889)
 <223> n equals a,t,g, or c

<400> 629
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 gctgttcccc ccatcatatc aagagaagtg tagtggaagc tatgcaacgc caagctcgga 120
 aaatgtgcaa ttacgacaaa atcttggcac caagaaaaac ctagnccatg tcaataaaat 180
 cttaaaagcc aaaaaacttc aaaggcaggc caggacaggg aataactttg tgaaacgtag 240
 gccagggtga cctcggaat gtcccccttca ggctgtcgta tcaatgcaag cattccaggc 300
 tgctcagttt gtcaaccag aattgaacag agacgaggaa ggagcagcac tgcacctcag 360
 tcttgacaca gttacagatg taattgaggc tgttgttcag agtgtaaata tgaaccacga 420

436

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acataaaaaag ggggttgaaga gaaaagggttg gctattggaa gaacagacca gaaaaaagca 480
gaagccatta ccagaggaag aagagcaaga gaataataaa agctttaatg aagcaccagt 540
tgagattccc agtccttctg aaaccccagc taaaccttct gaacctgaaa gtaccttgca 600
gcctgtgctt tctctcatcc caagggaaaa gaagcccca cgtcccca aaagaagta 660
tcagaaagca gggctgtatt ctgacgttta caaaactaca gagtaagtag tagtacctat 720
tagctaacat ccttttttct tccacatttg gaaaaatact ttgactatca aaaaacaata 780
tagattcttt tngtcttcat aancctgat gattngttt ttgactcat ggattgaagt 840
acnccttcct taaacttttg ggtcaaggnc aattacatta cccctttnt gatgtggggg 900
ggaaa 905

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<210> 630

<211> 800

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 630

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gcagcctgga cgggccgcag agacgttctt gtcttaggcg tcccacgaga tgcctctgtt 60
cagccctgcc gaggtggaag cttggagtgg ctacagggtg atgcattgac gctgcagacg 120
ccagcaagtg ctacaaacca gagctggcct ttaactcaga ctgatggaga aggtgttaat 180
aatgcagatt agacttaaaa gtgttgaagc cattgcactg tgaacagcaa aaaaattgaa 240
gaactcttct ggcatttaaa aacaattact cagttcagca gagaagtcac tgacaaacga 300
gatcacactg actgctttgt cgttttggtt ttgtcttact catlaatgca aataagaaca 360
ttcactagca tctgtgtcgg gcctaccctc cctgggtcaaa tacagctaca gtctccctgc 420
agatacgagt tttccagaaa tgagccgatg ttttctgcga gaatcaattg gtcataataca 480
atttacaaaa atgagtactg tatactatat ttgtaaactg tacactgcag atgctttatt 540
tactgaaat ttataataca cttatccatg tatatgcatg catgcatttt tgttcttgag 600
atccagctgt gaaatgttta ccagcacata aattaccagc acatgctctt ttttggttaac 660
ctactaggta aaatcttcat ttattacatc aaaaaaaaaa aaaaaagggc gggccgcttt 720
agaggatcca ancttacgta cgcgtgcatg cgacggtcac agcttcttct antagngtca 780
cctaaattca atttcacngg 800

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437

<210> 631
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (40)
 <223> n equals a,t,g, or c

<400> 631
 actaacgggg ctncacnatg gaagctcatt ataggggaatn ctggtacgcc tgcaggtacc 60
 ggtccggaat tcccggggtcg acccacgcgt ccgcggggagc cctttgctgt gtgctctgtc 120
 cagtgtcatg agacggggagc cctttgctgt gtgctctgtc cagtgtcatg agacggggagc 180
 cctttgctgt gtgctctgtc cagtgtcatg agacggggagc cctttgctgt gtgctctgtc 240
 cagtgtcatg aggcaggtgt ttgcaaagcc agctctcggg tccgatgggg tattgctgac 300
 ctacttttct aggggaaatg ctcttaaaca ctgtaattat gcattttctaa tgaaataaaa 360
 tgtatttawr accacaaa 378

<210> 632
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (529)
 <223> n equals a,t,g, or c .

<220>
 <221> misc feature
 <222> (540)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

438

<222> (583)

<223> n equals a,t,g, or c

<400> 632

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gcccgcceca gtttgaggac ttgctatccc cgtgggaaca tcaccatgtc cgaggcaccc 60
cgggccgaga cctttgtctt cctggacctg gaagccactg ggctccccag tgtggagccc 120
gagattgccg agctgtccct ctttgctgtc caccgtccct ccctggagaa cccggagcac 180
gacgagtctg gtgccctakt attgccccgg gtccctggaca agctcacgct gtgcatgtgc 240
ccggagcgcc ccttcactgc caaggccagc gagatcacgc gcctgagcag tgagggcctg 300
gcgcgatgcc ggaaggctgg ctttgatggc gccgwgggtg ggacgctgca ggccttcctg 360
agccgccagg cagggcccat ctgccttggtg gccacaatg gctttgatta tgatttcccc 420
ctgctgtgtg ccgagctgcg gmgcctgggt gccgcctgc cccgggacac tgtctgcctg 480
gacacgctgc cgccctgcg gggcctggac cgcgcccaca agccacggna cccgggccc 540
gggcccgnca gggttacaag cctcggaag ctttttccac cgntactttc gggcaagacc 600
aa 602

```

<210> 633

<211> 669

<212> DNA

<213> Homo sapiens

<400> 633

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gacaggatac gtccctgtaa cccaatctct cggttgattg atagcagaac agctcttgtt 60
ggtctgagaa ggcaggataa gtgaccacat atttatgcca ctacctccac caggagagat 120
ccttctccac aggcctgata aattcaatca ccaactgtgc tgcgtccct gactctgcta 180
ctcccgttct tcctgctttc ctgctccgta tctcagtctg cactgacccc agggctgggc 240
tgacatcaag atgggagccc agcccacggg ctttataaac acccaagaac cgtttcagat 300
cttctctgtg ctgatgcagg tagttttaaa ttttctcag ttccagtgat agaaaaccca 360
cacaatacat cctctgccag tcttaataga atatcagagg taagaggggc ctgagagaag 420
ctctgacgca gtgctgctgg ggaagggaag tgactaaccc cgggtcagcc tgccatttag 480
ggaaagagct gaggttctta cccttggtgc atgctgccac ctctccttag ccagtgtctt 540
tgtacatcca cacagcacc taaggagcca tagtcacat caaagactca accctaaggc 600
ccttcaagat ctcaaagtgc cttctgaagc atcagagatt aaatattgtt caaactaaaa 660
aagtcgacc 669

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<210> 634

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<400> 634

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gcaattttta actaggttat cctgtgaatt aaacatttta atttattttt tatcatgtat 60
gatttattta tagatgcata catatgcagt aaaagcagta aaggaagcat gagaaagata 120
aacacaaatt gatggtggca gtgacctctg gggaaagaat tataggataa aaacaaaaaac 180
atatatactt taaaaagtat acttcgtgkt atgaaatatt ctcatgtgaa tgcattgtta 240
aatggratwa aagtagaata agttataata ctgggtactt agaaaccaga tattaaactt 300

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439

acctttatta tagtggtacc tgggtgccsn tagaattaca gtactwaaag gtacaaatta 360
tactaaaaat gatattggaa gatttgcaca tgggtggggt ttaag 405

<210> 635
<211> 1329
<212> DNA
<213> Homo sapiens

<400> 635
agagagaaaa gcacctttga atgcagtgaa tgtggaaagg ctttcagtta tctctcaaac 60
cttaatcagc atcagaaaaac tcataactcaa gagaaagctt atgaatgtaa agaattgtggg 120
aaagctttta ttcggagttc atctcttgct aagcatgaaa gaattcatac tggagagaaa 180
ccctatcagt gtcmkgaatg tgggaaaacc ttcagttatg gttcatccct tattcagcat 240
aggaagatcc atactggaga acgaccttac aagtgtaatg agtgtgggag agcattcaac 300
cagaacatac accttacaca gcataagaga attcatacag gagccaagcc ttatgagtgt 360
gctgagtgtg gtaaagcctt tcgacattgt tcatctcttg ctcaacatca aaaaactcac 420
acagaagaaa aaccttacca gtgtaataaa tgtgaaaaga cctttagcca gagctcccat 480
ctaactcagc atcaacgaat tcacactggg gagaagccct ataagtgcaa tgaatgtgac 540
aaagccttta gccggagcac tcacttgact gaacatcaga atactcatac tggagagaaa 600
ccttataact gtaatgaatg cagaaagact tttagccaga gcacatatct cattcagcac 660
cagagaattc attcaggaga gaagcctttt ggatgtaatg attgtggaaa atccttcaga 720
tatcgtcttg ctctcaacaa acatcagaga ctgcatcctg gcatatgaca attctaggaa 780
catcataaat ttaggggaga tattttacttt agtttgcctt tttgttaagt actgaagaat 840
cagagtggat ttagaaactg ccttgaaatc ttttaaat ttcactatcat gttatggaat 900
ggaaagtaca ttgggctgaa ctaatccaat tgttattaag ccactctgtg acattagaaa 960
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caaaggtagt ttggagtttt ataatcagtt ttgtatattt acaatatttt cttgaatggg 1080
tttactatac atcagcattt tgctgtgttg catctagaat gtgtatgttt atgcatgttt 1140
tgccaataga atttgtgctt cagtaactag atcggggatc tagtatgctc ctgggtctaatt 1200
gcattttacat tgttttaggta actggttcct aataaaaaga attataaaat accctcaaatt 1260
taacaattca attgcatata atagcctaac tcagtaagaa tattaataact tactattatt 1320
aaaaaaaaa 1329

<210> 636
<211> 440
<212> DNA
<213> Homo sapiens

<400> 636
gctgctggaa gcccaggcgg gggaaggggg ccgtgtgtcg cgsagagcgc ccttgagcct 60
tacgcagagg tcttgtgtgt tcctagttaa gccctcccac gcccgaggcc ccctcgcttc 120
ctctccaccc tctttaccca ccaatattcc aagcccagat cctaattccc caccgcatta 180
ccccgccttg gatttgggga atgtttttct ttattttaat atagctcaag gaaaaaatac 240
gtatatcttg agagattttg ggtggggaaa acaaaagcct tgccggagtar aaaaaacaaa 300
ggcttatttt tataaatgtt taatgttttc acccctgga tgctccgara cgccgtaatt 360
gtgacggcgg ggtacgtgtg ccataaatca tttagtgtct aataaaaatt ctgcctgttt 420
gccctggaaa aaaaaaaaaa 440

<210> 637
<211> 1216
<212> DNA

440

<213> Homo sapiens
 <220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1078)
 <223> n equals a,t,g, or c

<400> 637
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 gcaactggct cgcgaggcca accttgatac tgccaatggc attgtcattg atgaggcttg 120
 ccgcacctgc gatcccgcca tctttgccgg tggcgatgtg gcaatcactc gtcttgataa 180
 tgggtgcacta caccgctgcg aaagctggga aaacgccaat aaccaggcgc aaattgccgc 240
 tgccgcaatg ttagggctac cgctaccgct actgccgccg ccgtggttct ggagcgatca 300
 gtacagtgat aacttacagt ttattggcga tatgcgtggc gatgactggc tttgtcgtgg 360
 caaccgcgaa actcagaagg cgatttggtt taatctgcaa aacggcgtgc ttatcgggtgc 420
 ggtcacgctg aatcaggggc gtgagattcg cccaattcgc aaatggatcc agagcggcaa 480
 aacgtttgat gcgaaactgc tgatagatga gaacatcgcg cttaaatacac tgtaaccagg 540
 ataattagcg aatatctcaa tgcctggggc gtggcgagggt gcaagagtgt gtattacggt 600
 taaatcacat tatcttgcaa agggawtggg ctgctcgcca tatcgtcaat cgtatcaatg 660
 cgttcaaacc gactgccgat cgctcggttg tactgggcct gccgactggc ggcacgccga 720
 tgaccaccta taaagcgcta gtcgaaatgc ataaagcagg ccaggtcagc ttaagcacg 780
 ttgtcacctt caacatggac gaatatgtcg gtctgccgaa agagcatccg gaaagctact 840
 acagctttat gcaccgtaat ttcttcgata acgttgatat tccagcagaa aacatcaacc 900
 ttctcaacgg caacgccccg gatatcgacg ccgagtgcgc ccagtatgaa raaaaaatcc 960
 gttcttacgg aaaaattcat ctgtttatgg gcggtgtakg taacgacggc catattgcat 1020
 ttaacgaacc ggcgtcttct ctggcttctc gtactcgtat caaaaccctg actcatgnac 1080
 actcgcgtcg caaactctcg tttctttgat aacgatgtta atcagggtgcc aaaatatgcc 1140
 ctgactgtcg gtgttggtac actgctggat gccgaagaag tgatgattct ggtgctgggt 1200
 agccagaaaag cactgg 1216

<210> 638
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 638
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 aggaggatgtt gaaaggggaag aaacggcaac atttgactcg ctgtacaggc tgagaaatat 120
 cctattttgaa agaaatagaa gagtgatgga tgtcatttct cgttcacagc tttacttgga 180
 tgatcttttt tctgactact atgacaaacc tctcagcatg actgatattt cactcaaaga 240
 agggacccat atccgagtta acttacttaa tcacaacatt cccaaagggc cttgcatact 300
 ctgtggaatg gggaacttca aaaggagagc agtttatggg tgctttcagt gttctgttga 360
 tggtcagaag tatgtgagac ttcatgcagt tccttgtttt gatatttggc acaagaggat 420
 gaaataaaat gaaaaatgaa tacaccgtgt tgggtgtttta ggtgcagttg tgccacaaac 480
 cttccctaaa ttatctaggt ttgmwwtgat smmttaaatt aaaatgagaa aagcaaaaag 540
 aaaaaaaaaa aaaaaaaa 557

441

<210> 639
<211> 1269
<212> DNA
<213> Homo sapiens

<400> 639
aattcggcac gagtttgtat tttgagtaga gacagggttt caccgtgttg gctaggatgg 60
tgtctatctc ttgaccttgt gatccacccg cctcagcctc ccagagtgtt gggattacag 120
gtgcgagcca ctgcgcctgg ctggttttca tgaatcttga tagacatcta taacgttatt 180
attttcagtg gtgtgcagca tttttgcttc atgagtatga cctaggtata gagatctgat 240
aacttgaatt cagaatatta agaaaaatgaa gtaactgatt ttctaaaaaa aaaaaaaaaa 300
aaaattttcta cattataact cacagcattg ttccattgca ggttttgcaa tgtttggggg 360
taaagacagt agaaatatta ttcagtaaac aataatgtgt gaacttttaa gatggataat 420
agggcatgga ctgagtgtct ctatcttgaa atgtgcacag gtacacttac cttttttttt 480
ttttttttta agttttttccc attcaggaaa acaacattgt gatctgtact acaggaacca 540
aatgtcatgc gtcatacatg tgggtataaa gtacataaaa tatatctaac tattcataat 600
gtgggggtgg taatactgtc tgtgaaataa tgtaagaagc ttttactta aaaaaaatgc 660
attactttca cttaacacta gacaccaggt cgaaaatttt caagggtata gtacttattt 720
caacaattct tagagatgct agctagtgtt gaagctaaaa atagctttat ttatgctgaa 780
ttgtgatttt tttatgccaa awttttttta gttctaataa ttgatgatag cttggaaata 840
aataattatg ccatggcatt tgacagttca ttattcctat aagaattaaa ttgagtttag 900
agagaatggg ggtgttgagc tgattattaa cagttactga aatcaaatat ttatttggtt 960
cattattcca tttgtatttt aggtttcctt ttacattctt tttatatgca ttctgacatt 1020
acatattttt taagactatg gaaataattt aaagatttaa gctctggtgg atgattatct 1080
gctaagtaag tctgaaaatg taatattttg ataatactgt aatataacct tcacacaaat 1140
gctttttctaa tgttttaacc ttgagtattg cagttgtctg tttgtacaga gggtactgca 1200
ataaaggaag tggattcatt aaacctattt aatgtccaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaa 1269

<210> 640
<211> 691
<212> DNA
<213> Homo sapiens

<400> 640
gggaatattg taatacagtc cagctagatt ctgggataga ttaccggaaa agggaaacttc 60
ctgctgcagg aaaactctac tacctcacia gtgaagctga tgtggaggct gtcattggata 120
agttgtttga tgagctggct cagaaacaaa atgatttaac tagaccaagg attctaaaag 180
tgcaaggcag agagctgcgc ctgaataaag cctgtggaac cgttgccgac tgcacatttg 240
aagagctgtg tgagagacca cttggagcca gtgactattt ggaactayca aagaattttg 300
atacaatatt tttacgaamc attccgcaat ttactctggc aaacaggact caaggtcgaa 360
gattcataac tctcatcgat aacttttatg atctcaaggt gcgtataatt tgctctgcgt 420
cgactcctat atcaagctta tttttgcatc aacatcatga cagtgaagtg gagcaaagca 480
gaatactgat ggatgawttg gggctkarcc aggatccagc agaaggactc tccatgttta 540
ccggagaaga ggaaatcttt gcatttcagc gcacaatttc ccgactcacg gaaatgcaga 600
ctgaacagta ctggaatgaa ggagacagaa ccaagaagta actgccactt ttgcataaat 660
aaaactctag acaaatgggt aaaaaaaaaa a 691

<210> 641
<211> 604

442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<400> 641

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cgcgctcgact tttttttttt caattttcaag gattacgaaa ttcttctgtc ttagttacaa 60
acaaaatgca gctatgaagc actgggaagt aaatgcaaaa tatagaaaga atcttcatga 120
ttctcccaaa ctgtaagcac agctcacaaa gtctcattgc tttagaatgt tttctggatg 180
aacaagttac cagctgcaaa ccgacttcag aagtgaggaa aatgttttct catgtttcat 240
gtagctgtca aattttcaaa aatcctccat ccttcaatca ccagtgggg aaaatgtgtt 300
ataaaacact gccccctgga gtattctggg aggaatgtct taaaaaaaaa aaaaaaacag 360
carggagaaa gtactttcaa attctttact aaccactaac agaatttcta agaagcaaaa 420
gaaaaccaca gaaaggaaat gtacatgaat aaagttgagc aggatgtgta caactttaaa 480
ctgtattgta ttcattgttc taaacaatat tggccttctc gatgattnta ttcattgttc 540
tccaaagtta accctgtaga actaagtagg tgaagagata ttttgtataa gtgccacaga 600
agag 604
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<210> 642

<211> 961

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (923)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (947)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (953)

<223> n equals a,t,g, or c

443

<220>
 <221> misc feature
 <222> (954)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (960)
 <223> n equals a,t,g, or c

<400> 642
 tagatagaac agatgttttg tgtgaaattt nntatcttta acttaatawaa ccagcaggaa 60
 ctgtatgaac acaacacacc caactgacaa acagagagaa ctaacatgtt tatttagctg 120
 tatgtatata tgcttaacta cacccgagga agctgtagag ttagaaaaac atgaaccatt 180
 aacagatgtg gcctccctgc agaactttta ctttgaaaaa gaagtacgtc tgaaccagat 240
 tcacatgttt gatatttgga tgcagagaaa atggggcgaga aagcatcgca acagttggct 300
 ctgaaggaca gcaaagaggt gcccgctcgtc tgtgaggtgg tcagtgaagc tatagtccat 360
 gcagctcaga aactgaagga gtaccttgga tttgaatatc ctccaagtaa actctgcccc 420
 gctgcaataa ctctgaatga gatcttctta atccatttca tcactttctg ccaagaaaag 480
 ggagttgatg agtggctgac caccaccaag atgaccaagc accaagcctt cctgtttggt 540
 gcagactgga tttggacctt ttggggatcy gacaagcaaa taaagcttca gctcgcagta 600
 cagactctgc agatgtcttc acctcctcct gtggaatcta agccttgtga cctttccaat 660
 ccagaatcaa rggтарagga rtcttcctgg aagaaaagta gatttgataa gctggaagaa 720
 ttctgtaact taataggaga ggattgcctg ggtctgttta tcatctttgg tatgccagga 780
 aagcctaaag acatcagggg agttgtcctg gacagtgtca aaagtcagat ggtgaggagc 840
 catctgccag gaggggaaggc tgtggctcas tttgtcctgg aaactgaaga ttgtgtgttc 900
 atcaaagagc tgctcaaaat tgnctgagta agaaagacgg gctgganaga agnnggcaan 960
 g 961

<210> 643
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 643
 acatggaagc ttttttacca aataactgtg ttgcatcadc ctccagtttg cctgggtgtcc 60
 ttaatcaatg gaaggggaat aagcaaactg agttttctta caccttttga gtatagtgtt 120
 tttgccatca tagatgtggc tcttcataat tctccaactt ttatattaaa aaacaaaaac 180
 ctcaaaaatt gtagttcatg tcagtcagtg atgactcadc ttagaaktat tttgtttttg 240
 gatgtgtgaa tgtgcatagt tcttaaagtc caacattcat gtaataagac atcttgcata 300
 taacaatgac ccttacgtct aagatgttaa atagatccta agcctgggat aactttattc 360
 aagtatcctt atttgccctt aaaatgtctt taatacacat tacttgggtt atytcttgaa 420
 tgaac 425

<210> 644
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 644
 ggtttcaatg ttttgtctgt gtctctctga ttattttgct tggttgattgg ccagttgtta 60

444

```

attctgtctt tgtgagttgt ctttttctca gtacttggcc tatttgtctt tgatttgaaa 120
aagctcttta tgttgtagtc attttaattc ctgtcatatg ttttgtaaac aatttttcga 180
gttcataatt tttcaatctt gtttgtatta tattttgcca cacaaaaatt ttaaatttgt 240
atagtcaa atcagtcct ttttccttat gttggacctt ctaatctcaa ggtactaaat 300
ataatctagc atttttttaa acattaaaaa tttttaatcc atctataatt tatttttagga 360
tagggagtga ggcaggggaa ggtatctttt taaataaaaa tcgttgctaa aaaaaaaaaa 419

```

<210> 645

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 645

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acagcctaac tttncagcta gacagaatgg ccattaagaa tatttccaaa atccaagttt 60
atcaaaaatta ttttgtggga aatcatcaat ctattttatt aatggtatgt gtttaatttt 120
ggacttattt tgggaaaaaac tgttcaaat gggtcctttt aagcttattt taagcagcct 180
agaaggaaga agctacttag ctaatgaaag ctgagacact ttaataaaaag caggatctta 240
agagcattgt ttttccttaa aaactttata ctctcagata atctgcaaca acaaaaatta 300
agaaatccct gacttttcta gaattcccac tgtcaaattc tcactgactt atgagtgtga 360
gagaagttat cttttgtttg aattctgata gaacagttta actcctttct aaggatataa 420
aaaattcatt ggaaagtgtg tatatttcaa agactctcaa ttatctggac tgaaggcact 480
gttctcacta tggccagatg aatgggagta ttctgtacat gaatcatgct gtatttttaa 540
tcaggacatc acttaagtat taatgttgtg tgtacagatt tttgttttgg gatttttttt 600
gcctaaataa atgttatataa ttttatgtaa aaaaaaaaaa aaaaaaaaaa aaaaaa 655

```

<210> 646

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 646

445

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gccctctctt ccaatatcca tgtctcatatc actatggctt actgttgaaa tccaactggg 60
aagaagataa ttcttttgagc aagcaatggg agattcaggc tcctacagaa acagcattga 120
tcataactgtg gttcttcgag agaagctgcc catccgcagt aatatcttcc ctctgatgct 180
ggaaactgtc gacggccatc cacttattaa tggacccata actaaggaaa catcacctgt 240
ccaagttcaa attggaaacc atggttgaaga gctccagttt gacattattc atgcaccacg 300
ataccctctg attattggaa tccattgggt tgagacacat gaccaaacat araatggart 360
acccgcactg ngtcctttct atcacgttat ttgtcactac aattgcttca ggcacagggt 420
ggaatannaa gaaatccgtg atgaaataat tttctggg 458

```

<210> 647

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<400> 647

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aaggctgaca caggagcaat caagaaccca ggagacgggtg gttgcagtga gctgagatcg 60
cgccattgcc ctccagcctg ggcaacaagg gtgaaactct gtctcaaaaa acaaacaaac 120
aatgcattt aactattcct gtgtaacaaa ttntaaagg angctgtaaa gttaaagggtt 180
ttcttatcca aacagattgc tcttcttgaa aacagcagcc tgyggttatg tcaganatgc 240
aaacactgct gaaggctaca gagagaagct ggtaactggc tgccg 285

```

<210> 648

<211> 1872

<212> DNA

<213> Homo sapiens

<400> 648

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aattccgatt ttatgccagt tgcaccagca tgcagaatat ttgtaatgca tttcaaagtg 60
gatataatgg caccctttgt cagaatcaca aagctcactg cggcactgct acaagaggac 120
actgaggaaa atctggccct atgaacctag tcaaccccaa gcaaaaagaa tgactatgtg 180
tgtgagtgca gcatatggcc agttcgtttc tactgtttt ggaaagccct gtgtgccaaa 240
ccaaggacgt gtctttcagg gaaagggtta ttttccgaag tttattaaaa tagaacttgg 300
aaaaccaagc attttgaatt tattccagtc ctctgggcat cattcctatt tcttctgcca 360
tgtcaaggag aaattccaag cctgcattct gtcattgctaa aataaccagc ccatacttct 420
cgggtgacct ctgttgaaacg tacctgagcc tgcaaatgta aaaatgattg tatctgaatt 480
tgcactaatg gtgtctgaga gcaaaaagag tgtgacctct attggaaacc tttgttcaaa 540

```

446

```

ttcaataatt cagagatgct acatacttct gcaagcttcc tgattatggt cactgtaata 600
ttaatgacct aagtttgaat gtatttcctt acagtccatt aatttgacat ccatctttta 660
cctgggggatt attacaattg caataagtca ttaatgtttt cttcacacag cttcttaaac 720
caagttttctc tgcagctctt tcggttctgc ttacagtgtg tgggaaatct gatttttttc 780
ccctagtaat agtttgataa gaaatttagt gtattgactg cctcagtgc acaatttata 840
tttaaagggtg tggaagctgg tggggaccaa atgttacctg tgtttttgct gttgattgct 900
attttcagaa gcaaaccatg tttttcactt acagtaggag tcaacaaatt tgggatttta 960
gaaggggggag gagggagcta tttgtgtaag actgctgtca tatttgacta catattaaaa 1020
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cccgatgtgg aaactgatac tagctagagg gagctgtaga aaacaaagat ttcaggattg 1260
cacagtgtgt gggcaatggg atggagactt tttcccttat tcccagccac agtgcccaag 1320
cgttcaagtc ycctggatca gacagatggg attttagctg ctgctttaaa tcctagtgtc 1380
ggaataagtc aaggtacytc agttcagctc ttgcctctgt cactaatctt gctttatgaa 1440
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ccactcttgg actaccttta taacaacacc gagtacgcac agacctgaac ccatgcccaa 1680
gaagcacaca caatgactgg agctgtcggg aattcctgtc agtggcattc cctgagcact 1740
ggctctgtac aactcaatta taatttttta agaatacatc ctctgtatag atcttttggg 1800
ctgtactgat taaactttga tattgtggag taaattcaga agtgcaattt taaaaaaaaa 1860
aaaaaaaaaa aa 1872

```

<210> 649

<211> 840

<212> DNA

<213> Homo sapiens

<400> 649

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aattggaagg gaccttaaag ccctctaaga aagagttggt tagtagcagc tagaagccag 60
gtcttccaaa tcacagtcct aaatgatgaa tgttgaatga tgcactatgt ttttgtttaa 120
atgagatttc ctgaaaatag ttaatttcag aattaaggga aattgatgtc gctatcatga 180
ggcatcataa aaatatgtat tttaacaagg gaaggcattt caagtagata tagttcttga 240
tgaagcagga agaacatgga tctgggattt ggaagacctg gcttctagct gctactaacc 300
aactctgtga ctctgggaaa gggggactca gttcttactt ctgtaacatg aggacaccgg 360
actatttgaa ttcagaactt agaaaattgg aaggggacct aaagccctct aagaaagagt 420
tcgggaatgt tctccattgc tgtcagttt cctccaaaaa taacctggct tgggaagttat 480
tggtccagtg ggaatttgat tccccataga aactggagaa aaggtaatgc aagtagagag 540
gaacagctgt atttctgctt gagtaataaa cccactaaca gattctggta cgaattgtgg 600
agacataaag agaatgagtg tatgtactct aagtgtacca gtttcttcac tctctcctgg 660
cagaagatgc aacactttta gtgattctgg gattctggga tgtgttccta ttaattctaa 720
tacagatgaa gaagatgtgg tagaggaaaa gatggttagca gaaggagtga ataaagaggc 780
aaaacagccc gctaaaaaga aaagaaagaa gggtttgcga attaagggga aaaggcgctc 840

```

<210> 650

<211> 823

<212> DNA

<213> Homo sapiens

<220>

447

<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<400> 650
cggnttttggga gcatataccc aactttttctc tggatgatat ggtaaagctc gtagaagtc 60
ccaacgatgg agggcctctg ggaatccatg tagtgccctt cagtgcctga ggcggcagaa 120
ccctgggggtt attagtaaaa cgattggaga aaggtggtaa agctgaacat gaaaatcttt 180
ttcgtgagaa tnattgcatt gtcaggatta atgatggcga ccttcgaaat agaagatttg 240
aacaagcaca acatatgttt cgccaagcca tgcgtacacc catcatttgg ttccatgtgg 300
ttcctgcagc aaataaagag cagtatgaac aactatccca aagtgagaag aacaattact 360
attcaagccg ttttagccct gacagccagt atattgacaa caggagtgtg aacagtgcag 420
ggcttcacac ggtgcagaga gcaccccgac tgaaccaccc gcctgagcag atagactctc 480
actcaagact acctcatagc gcacaccctt cgggaaaacc accatccgct ccagcctcgg 540
cacctcagaa tgtatttagt acgactgtaa gcagtgggta taacaccaa aaaataggca 600
agaggcttaa tatccagctt aagaaaggta cagaagggtt gggattcagc atcacttcca 660
gagatgtaac aataggtggc tcagctccaa tctatgtgaa aaacattctc ccccgggggg 720
cggccattca ggatggccga cttaaggcag gagacagact tatagaggta aatggagtag 780
gtttagtggg caaatcccaa gaggaagttg tttcgtgtt gag 823

<210> 651
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<400> 651
ggcacgnngg gaggcccagg gagaacgggg aaggacatt tagtttgaga cggtgctgag 60
ataggntcat gaaggaagag gtgaaggga ttcctgtaag agtggcgctg cgttgtcgcc 120
ctctggtccc caaagagatt agcgagggt gccagatgtg cctttccttc gtgcccggag 180
agcctcaggt ggtggttggg acagataaat ccttcaccta cgattttgta tttgatccct 240
ctactgaaca ggaagaagtc ttcaatacag cagtagcgcc actcataaaa ggtgtattta 300

448

```

aaggatataa tgcaacgggc ctggcctatg ggcagactgg ctctggaaaa acctattcaa 360
tgggaggtgc atatactgca gagcaagaga atgaaccaac agttgggggtt attcctaggg 420
taatacaact gctcttcaaa gaaattgata aaaagagtga ctttgaattt actctgaaag 480
tgtcttactt agagatttac aatgaagaaa ttttggatct tctatgccca tctcgtgaga 540
a                                                    541

```

<210> 652

<211> 1655

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1521)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1648)

<223> n equals a,t,g, or c

<400> 652

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agtctggagc cggcgcgtag gagcgggcgg cggggctgtg cctctccta ctcctcaccg 60
cgcgmgcggg gaaccagtar ccgcggctgc ttcggttgcc gcggtcgggtg gtcggttatgg 120
attctccatg ggacgagttg gctctggcct tctccgcac gtccatgttt cccttttttg 180
acatcgcgca ctatctagtg tcagtgatgg cggtgaaacg tcagccggga gcagctgcat 240
tggcatggaa gaatcctatt tcaagctggt ttactgctat gctccactgt tttggtggag 300
gaattttata ctgtctactg cttgcagagc ctccattgaa gtttcttgca aaccacacta 360
acataattact ggcattctca atctgggtata ttacattttt ttgcccgcac gacctagttt 420
cccagggtcta ttcatatcta cctgttcaac tactggcttc gggaatgaag gaagtgaacca 480
gaacttgga aatagtaggt ggagtcacac atgctaatag ctattacaaa aatggctgga 540
tagtcatgat agctattgga tgggcccagag gtgcaggtgg taccattata acgaattttg 600
agaggttggt aaaaggagat tggaaaccag aaggatgatga atggctgaag atgtcatacc 660
ctgccaaggt aaccctgctg gggtcagtta tcttcacatt ccagsacacc cagsatctgg 720
caatatcaaa gcataatctt atgttccctt ataccatctt tattgtggcc acaaagataa 780
ccatgatgac tacacagact tctactatga catttgctcc ttttgaggat acattgagtt 840

```

449

```

ggatgctatt tggctggcag cagccgtttt catcatgtga gaagaaaagt gaagcaaagt 900
caccttccaa tggcgttggg tcattggcct caaagccggt agatgttgcc tcagataatg 960
ttaaaaagaa acatactaag aagaatgaat aaattttacgt gatgagctct acaaggccaa 1020
aaattttttt tcttatctac ctgttatatt gtgctaattt tctatgtatg tgatgtgaaa 1080
tgaagactat atatatggaa tggagggtgac agaaagaaaag aaattccttg tttgagggag 1140
acttccccct tctggattgt atttgtagag tgttacgagt gtatcatgtg attatgcttt 1200
accggtataa gagattctgt tgtgattatt tgaatagttt tatattaata aaagaagacm 1260
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ttttaaaaaa gtaagatttt tctgtattttt aaaattttgaa tctatttttga gcttttagntc 1380
agcagaatta aattttttact tgacattatc attaaaattg ctaggtatgg agaacaattc 1440
ctgnttttatt ttgaacactg agaaagaggt aaacttttcc taaaacactt tatattataa 1500
accgaaaaat aaattgctag nttatatattt aagatattaa catcataattt ttttaataata 1560
cctacatcaa atgggaaaaa atctgaaatt tttttttcat tagcanggat ttttctacta 1620
gaaagtagtt taactacttt catttttanaa ccaga 1655

```

<210> 653

<211> 1160

<212> DNA

<213> Homo sapiens

<400> 653

```

tggcgctagt ctgaccctcc gccaggcaaa aggaagattg tctttggcta tagagttttt 60
tttttaaaga ttactaaaca tacaggaagt gataagaagt atcattcatc agaagcatca 120
ttcatcaatc aacttgaaga aaaagggtgat atattatttc ttttaagggtgc tgtgtgatgt 180
gttaagagca tattagaagg aatggttttg tctaattttc ttcattgagt atggtggctg 240
agacatcgag tctatatattt ggggcaaaaa ctaaacggca gcacaaaagg aaatctatat 300
taatagaata ttttgttgaa caaaggaggt tagataagaa ctgcaaacca acagactcag 360
caaacaagga aagaaacgtg ttagccataa gacatgtttc aagtgaatcg aagtccaata 420
actgtagact tcagaagaaa aaagttttca aaaattttat caaacagggt cactgataaa 480
taactcctcc agtaatagag ctaggcctga aaccaraatt aattaaaaaa ttaacaaaac 540
agattgaacc tgaattaaat ttcttttgat aaaaaaactt attaaaaata atcaaaattt 600
tctcaaat tttattacct tgtccaaaagt aaagcaagtg tcttttagca ttcattgccag 660
cttttctcat gktctaggaa tgacagaaac cttacttgaa gcaaactagt atttttgttg 720
aaaatgkata tcagcatcag ttaaagttga tttttcagac ctgctcctca gtaataatac 780
tagctagtca gcattcacgc ctaccaggac acaaaaatcc tcttcaaaac tactcagaaa 840
agaaagtcat tactcaggaa tgatgtccat tcaggagaaa tcaaaagaga attcctccaa 900
agttactaaa aaaagtgcag ataagaattc agaaacagaa attcaggatt ctcaaaagaa 960
tctagcaaaa aatcagggtcc aaaggagact ataaaatcac aggctaaatc ttccagtga 1020
agtaaaataa atcagccaga attggaaaca cgcattgagta caaggctatc aaaggcagca 1080
tctaatgata aagctactaa atccattaat aaaaatacgg tgactgtgag gggatattca 1140
caagaatcta caaaaaaaaaa 1160

```

<210> 654

<211> 836

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (538)

<223> n equals a,t,g, or c

450

<400> 654

```

gaaggcctga gagacggcag actgagcaga attccttttt tgagcacgag agcattacta 60
gaaccattgt caaagcagtg gcaagggacg gagagggtccc aacaggagtc aggaagaggt 120
ttgattataa ccaagaaaac tcactatgct aggaatagac tgtgtgcacc agtcccagac 180
acttggcaga agtgtagcag cgttacacat gtgtgcgaas agatcgcagg ttccacgcca 240
tctgcatggc ctgcaggagc ttctgctgct gaccccatgc tgagtggcca gtggggagcg 300
gcgcccgcca ggctcttctg gggtcgtctg tcctatccgt ggattgtata tactcttctc 360
tgtaaggag tttttcccaa gaagaaaagt atttaaaaga aataccagtg agtgccttaa 420
agttggagaa gtaactgcc atgcccagaa ataaggatgc cagtgccag aagcagtgag 480
attagtctgt gtccacaagc agaggccccc tcgatgggag ggagtggcag gcaggagnaa 540
gggtggcgctg ccagggtgcc gggctctattg gaggcgcccc atctcagact tcctaacaca 600
gcctgtgtgg aaggcagaa aaagaatgca tgcccagtc gaaatctgkt ctattctgct 660
ccaggaaaaat cggaaacctg tgagtcagag tcagagaaac ttaccaagc aacgtaattc 720
ctgttttcat gggtcctgta gatgtttgag tcaggaggta aggcggggag ttactaataa 780
actctgcctt ttaaattgag catcttgccc gggcatgggtg gctcacgcct gtaccc 836

```

<210> 655

<211> 1188

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1175)

<223> n equals a,t,g, or c

<400> 655

```

actatatctg gcctttataa acttttttga ttcttgtcat aacacttagc ctaaaatgca 60
aatgtacagc tgtagaaaaa tactttatatt ctttatatcc ttattctaga agcttttttt 120
ctattaattt ttgtttgttt gkttttgttt actatttact tctaaaactt ttttgtaaa 180
aaccatggca caaacacaca cattatgcta ggcatacaaa aggtcaggat catcagtctc 240
actgtcttcc acccccactt ctcacccac cattgtatct gctgtctgtg gctgaccaa 300
acatcatcat gtagcacatg actagtgtgg caagtgtctt gttagatgta aggccatgat 360
gctaaagcat cacaagaggg catctaacce agattgggga tgtcatggaa ggccgacatc 420
ctgagttgaa tcctgcaa atgtaaaaacca ataggcaaag aagaggaaca aaaaggattc 480
caggacaaac tgaggtcaca tctatgatcc ttgactttat tgtgtctgtt taaagtatct 540
acagtaacct gtatcaactt agtcagtgtt ttaatactaa atttagctcc ttcaaagcag 600
ttggaactat gtgctacata aatttcagct tcacacaagg aagggaagga gtgaaattag 660
tgaacaggca gttacagcaa aagaaaaaac ataaaaattg aatagctggc tctggtgaaa 720
tgagcaagga ctttagagtc aaactggcct ggatttgaat cctgatcctc attgcttgta 780

```

451

```

gctgtatgat ctggacaaat gacagtaact gtttctaacc ttgattttct catctgtaag 840
atgccaatg taactcctaa ggatactgag gattttttaa aatgcgtgta cagttcctga 900
ccagtggttt gtgcctaata acttattaca aattattacc cagtaaaaac cttgagacaa 960
gagtgaaaac gtaaagctaa ttaatccatt acttgtagc aagcaaaacta cgtgcttgag 1020
aaaattactc aactttcatg ttttacttcc agacagtagt ttgattaaaa gaaaaaaaaa 1080
aaatccagcc caagcatggt ggcttacacc ctggcacttg gaaggcccaa ggtgggaacc 1140
ataagcttgg agccctanca anttttgaaa actanccctg ggggcaac 1188

```

<210> 656

<211> 1132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<400> 656

```

gacgcgtccg ccgcctccgg aactaaacgg ggtgagggtca cattcgggtta tctctaacgt 60
tggaacacga tggagctaac acccattatg gagattaacc acttttcac aggtttttaa 120
cttaagtcgt gaggaatata acggtgaaca caagattcat tttattttca tcaccatggg 180
acgtatcctg ttgttgagtt ctctgggtca gacctctgaa gacttctcag atggatccta 240
gtctctgggc ttgcentgaa attactcgct gctcaggag agagttgaaa tggttggcat 300
cctcccactc tgttgctccg gctgtgtccc ctgctctgt tgttccagct atgtcccctc 360
tgttgctcca actgcagctc attctgtag agttcctcat tcagctggtc actgtggcca 420
gaggggtggtt gcctgctccc ttcctcaagt attcttaaag ccatggattt ttgtggagca 480
tttttcttcc tggctctccc ttgagttatt ttctttctt cgctatcttg ggactcttct 540
ttgtgcttgc ggwcacgggt tgagagaagg acttcttctt ccttgtctcc ttggtgttgg 600
ctcgtgggtt ctcttcaaca actggactgg aggtctcttg tttctcttc atcttcaaca 660
agtcagtcct tctcaagggt ctacagttgc agcattctta ccagaggcca ttgggccttg 720
agttccagtt ccagtgtctg gagagtcac ctgagctcag caatctcatg ccggttggca 780
attgtcagca gaagccgatg cctgcccac agttctttac tctgaggtgt tagagtggaa 840
taaaaatata aatacttata ctagttttca tgacttctgc ttaatattgg gtattttttt 900
gttttgtttt gttttggcgg tgataggctt accttacatt aaaccaggcc ttagcctttc 960
tgtggctttt ttatgcaaag cctcatatta ctctctagtc tggttcagca ggacagtcag 1020
gtccacacct ggggtgttt gttttctacg ttacctcaa cataaggtac cttatcattg 1080
tcagccttca tctctgatc caaaaataaaa taaaatgcca caggttactt ga 1132

```

<210> 657

<211> 566

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

452

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<400> 657

```

aaaaaaaaa caaaaaaaaa aaaactactt ctaattagct caatattaat attttaacaa 60
gttgggttgg taacagtata tctttgssca tgctggcaaa ttcttgtttt gtcagcattt 120
tccataactc tggccaaagt gtcacctgat gtggcaacgt tttacagtct tgctattgtt 180
tcttgagtcc tttaatctat aagatgtatt tttaaaaata tataacatat aaattttgtt 240
tcgttatagc tctttaaaaa aaaaaaaaaa aagggcgggc cgnctctagag gatccaagct 300
tacgtacgcg tgcattgcgac gtcattagctc ttctatagtg tcacctaaat tcaattcact 360
ggccgtcgtt ttacaaccgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 420
ttgcagcaca tccccctttc gcagctggcg taatagcgaa naagcccgca ccgacgcgcc 480
ttnccaacag ttgncagcc tgattgggga atggggacnc gccctgtatc ggcgcatata 540
gcgcggcggg ttgcggtggt ttgcgc 566

```

<210> 658

<211> 1178

<212> DNA

<213> Homo sapiens

<400> 658

```

atccagcggg tgagtctggt gaggagtctt tgcgagagcg aggagcagcg gttactggaa 60
caggtgcatg gcraagagga gcggggccac cagagcatcc tgacacagcg ggtgcactgg 120
gccgagcgcg tgcagaarct tgacaccatc cgcactggcc tgggtgggcat gcttactcac 180
ctggatgacc tccagctgat tcagaaggag caagagattt tcgagaggac cgaagaagca 240
gagggcattt tggatcccca ggagtcggaa atgttaaact ttaatgagaa gtgcactcgg 300
agcccactac tgacccaact ctgggcaacg gcggttcttg ggtctctctc aggcacagag 360
gacatacgga tgcattgagag gacagtcagc cccttctctc aattgtcaga tgatcgaaag 420
accctgacct tcagcaccaa gaagtcaaag gcctgtgcag atggcccgga gcgcttcgac 480
cactggccca atgccctggc tgccacctcc ttccagaatg ggctccatgc ctggatgggtg 540
aatgtccaga acagttgtgc ctataagggtg ggctgtggctt caggccacct gccccgcaag 600
gkttctggca gtgactgcgc tctgggccac aatgccttct cctgggtctt ctctcgctat 660
gatcaggagt ttctgtttctc acacaatggg cagcacgagc ccctggggct gctgcggggc 720
ccarcccarc tgggtgtagt gctggacttg caggttcagg agctgctctt ctatgagcca 780
gcstccggca cagtgtctctg tgcccatcat gtgtccttcc cggggccctt ctccccagtc 840
tttgctgtgg ccgatcagac catttctatc gtccgctgac ctctggccac aggaagccag 900

```

453

```
gtccaccgcc caccaccctt tcaggccatg tttctactca gtgtgctttt cccaaatgat 960
gtgtgtggtg tttctaagag aaacagggcc cataaccagt gggcagcttt aggagggatg 1020
gggatctggt tcagatctag gcataacctg taaatcacag gtgtccaaac ttttggtctt 1080
cctggggccac atttgaagaa gaattttctt gggccacata aaatacacta acgatagctg 1140
atgagctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1178
```

<210> 659

<211> 924

<212> DNA

<213> Homo sapiens

<400> 659

```
gctatagtct gtkaaatgtg cagtagcgtt gtgtcttaaa aaatgtgcat actttaaaaa 60
tgctttatatt aaaaaaaaaatt ctctgatca tcttgagcct tcagggagtc atgatctttt 120
tgctgggtgga gggtcctgcc tctatcttga tggctgctga ctgagcagag tgggtggttgc 180
tgaaggtycg ggtakctgta gcaatttctt aaaataagac agtaataaag ttgccacatc 240
aatgggactc ttcttttcac aaaagatttt tctggaagca tgggatgctg tttgataagc 300
attttaccca cagtagaact tctttcaaaa ttggagtcag tcctctcaca ccttgccact 360
gttgtactat gtttatcaat attctaaatc ctttggttga ggctaaacaa tattcacagc 420
attttcacca ggagtaaatt tcatctcaca aaaccacttt ccaggctctt tctggactgt 480
agagttcttt ccaggctacc ttgtggcagt ttaagagtct ggcattcatt tccgctggga 540
cctaaggatc gaggaggtgc ttgtgactag actgccaatg gacccatcac aaagtttaac 600
ccaaccttga tccccgagtc ttcacaaatg ctactgaag aaaattccta gaacaattca 660
gggtcctttc ataacctcta ctctgaggyg ttaataaaaa accttagtaa cttaaaaaaa 720
atgagctgta cacaaatact gaacaataat gctacatatg ttaagtatgt aagaaaaata 780
tatactttga cataaataag aaacggtgag ttgataattg gatagaatgg tggatagagt 840
gakagatatg tagtaaagca aatataacaa aatgataatt gtacaatcta agtggttggg 900
ctataaatat gcacttccca caac 924
```

<210> 660

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 660

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aggcgagtag catgtgcggg agactcacgt tgccggcgaa gtgggagaga gaaaagtggg 60
ggtgaacaca ctgtggggta gcttcgagat cagcaatgtg agactagccc gggctcatgct 120
gacacagttt gccgaggggc ggctggaaga tcaactggac aaatatgatc actgggctga 180
ccgctttgag gacctgcccc tctatttcat gactttccat ggacagcaaa gcatcaggac 240
tgtaatagat acaatgcaac atgcagtcta cgtctatgac atttgtcatg tgatcatcga 300
caacctgcag ttcattgatgg gtcacgagca gctgtccaca gacaggatcg cagctcaaga 360
```

454

```

ctacatcatc ggggtctttc ggaagtttgc aacagacaat aactgccatg tgacactggt 420
cattcacccc cggaagagg atgatgacaa ggaactgcag acagcgtcca tttttggctc 480
agccaaagca agccaggaag cagacaatgt tctgatcctg caggacagga agctggtaac 540
cgggccaggg aaacgggtatc tgcagggtgc caagaaccgc tttgatggag atgtaggtgt 600
cttcccgcgtt gagttcaaca agaactccct caccttctcc attccaccaa agaacaaggc 660
ccggctyaag aagatcaagg atgacactgg accagtggcc aaaaagccct ytttyggcaa 720
aaagggggct acgacacaga actytagat tkgytcaggc caggcccma ctcccacca 780
gcagacacct ncaagcgnrc aaagtgaagg ccg 813

```

<210> 661

<211> 1718

<212> DNA

<213> Homo sapiens

<400> 661

```

ggccgggcat cgcaggcgcc ctctcggggc ctcccgcccg ggggcgcaa cggggagagc 60
ccggggggcg gcgccccctt tccgggcagc agcggctctt ccgcctgct gcaggcggag 120
gtgctggatc tggacgagga cgaggacgac ctggagggtgt tcagcaagga tgcctcattg 180
atggacatga actccttcag cctatgatg ccaacatccc ctttatcaat gataaaccaa 240
atcaagtttg aggatgaacc agatttaaag gatctcttca tcacagttga tgaacctgaa 300
agtcatgtta ctacaataga aactttcatt acgtatagga ttattactaa gacatctcgt 360
ggggaatttg actccagtga atttgaagtt aggagacgat atcaagattt cctttggttg 420
aagggaaaac tggaagaagc acacccact ctgattattc caccattgcc agaaaagttt 480
atagtaaaag gaatgggtga acgctttaac gatgacttca ttgagacacg caggaaggct 540
ttacataaat ttttgaaccg aattgctgat catccaactt taacatttaa tgaagacttc 600
aaaatttttc tcactgcaca agcttgggaa ctctcttctc acaagaagca aggtcctggc 660
ttgctaagca ggatggggca aaccgtcaga gctgttgctt cctcaatgag aggagttaa 720
aaccgcccag aggagttcat ggaaatgaat aactttattg aactatttag ccagaaaata 780
aatttgatag ataaaaatc tcagagaatt tataaggaag aaagggaata ttttgatgaa 840
atgaaagaat atggcccaat tcataattctg tggtcagcgt cagaagagga tctggttgat 900
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tctggactct cagaggccct gcttcctggt gtacatgagt acgtgcttta tagtgaaatg 1020
ttaatgggtg ttatgaaaag aagagaccaa atacaagcag aactggattc caaagttgaa 1080
gttttgacct atwaaaaggc agatactgat ctgcttccag aggagattgg aaaacttgaa 1140
gataaagtgg aatgtgctaa taatgccctg aaagcagatt gggagagatg gaaacaaaat 1200
atgcaaaatg atatcaagtt agcatttaca gatatggctg aggagaatat ccattattat 1260
gaacagtgcc ttgctacgtg ggaatcattc cttacatcac agaccaacct tcacttgga 1320
gaagcctctg aagataaacc ttaatcccat tgaggacttc tgtttgatct tggggagaca 1380
gcatttatta accaaagtta ttctttctgg atctgccgtg tccttataaa gtggatgaaa 1440
aatgttttgt acccatctgg aaaaccaaca acttgaaatc tcaggatttc caggtcactg 1500
acatgaattt gaagatatat ctatctgtat ggatatatat ctatatgtat atagatatat 1560
aaatacagag agatatctgg ctgggtttta attatgttct taaatttggtg tgccaataat 1620
tgcatataga tttttttct taaatatttg actgtggaac atgccatttt aaatatgttg 1680
taaggactgt ttttaataaaa agtttagtat gaaaaaaa 1718

```

<210> 662

<211> 1114

<212> DNA

<213> Homo sapiens

<400> 662

455

```

gcggcggcgg cgcaggggct ggtacgcgct gggcggcgag agctcatggc ggaggaagag 60
agcgaccaag aggccgaacg cctcggagaa gagcttgtgg ccattgtgga gtccccgctg 120
ggccctgtgg ggcttagagc tgcggggcgac ggcagaggcg gcgctggcag cggcaactgc 180
ggcggcggcg tcggaatcag cagtcgggat tactgccgac gcttctgtca ggtggttgaa 240
gattatgctg gaagatggca ggtccctttg ccacagcttc aggttcttca gactgcectt 300
tggtgtttta caacagccag tgcattcatt ccagatgaat gtgagcatgt acaatatgtt 360
ttgartagcc ttgctgtgag tttctttgag ttgctgtgtt tctttggaag agatgagttt 420
tatgaagagc ccttaaagga tattcttgga tcattccagg aatgccagaa tcacctccgc 480
agatatggaa atgtgaatct ggaactggtg actcgaatca ttagagatgg tggcccatgg 540
gaagatccag tggtgcaagc tgtccttaaa gctcagccag catctcagga gatagtgaac 600
aaatatttaa gttctgaaaa tccactgttc tttgaactac gtgccagata cctaatkgtc 660
tgtgaacgca taccggaagc aatggctctt attaaatctk gtataaatca cccagaaatc 720
agtaaagact tatacttcca tcaagcactc ttcacatgtc tgtttatgtc acctgtagaa 780
gatcagctat tccgggaggt attgtttgag actatttttg cctattacca ttttaaccct 840
acaaaaaaaa aacaaaaaaaa aaaaagtagc ccactgttgt tgttaaattc cttttacagt 900
aatgccaaag atttaaggat tacattatct ggatgtgttt tcttttgga ccataactta 960
aggctcatgt gaattagtca aaatctgata ttaacaaatg atgaaatcaa taaaatatac 1020
tcattaataa gtattattca cattgcactt ttgatgtgat ggagaagagg tcaaataaaa 1080
gtcaacaagc tcacagcttg ccaggagtaa aaaa 1114

```

<210> 663

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<400> 663

```

gattaaaagg atggctcttc ctaangtaat ttactctttg ttggttttan gaaatctttt 60
gcatgtatan ggtataaaac aacaactggt tatatgttac ttccattagc cgatgaacta 120
gyggktaa at gatgcttcaa atagaaaata agttaattcc actaatagat tgtgttttca 180
ttaaagtc at aaacatgaaa taacacttta caaagttcat tttgttgagt atcttgcat 240
actgtgaatt atattgtaaa gtagtttaaa gtttaacatt aaagataaaa ttattatttt 300
tgctgttatg gtatgaataa aaaaatttga ttaactttta a 341

```

<210> 664

<211> 285

<212> DNA

456

<213> Homo sapiens

<400> 664

```

accatggcag tacacaggcc gccgccaatc tgcttaacac caaccagctt gacgcgcgca 60
gctttcacca tcgcgtcaga agcctcaatc agtgcaacca ggccccgggt ttcgatcatt 120
cctaattgctt ccattgtsct ttcctcttta tcagggtcca gaacgggacc gttcattcaa 180
ccagtgtttg taaactgctt tcgcgggtcca ctwctgtctg acgcggcaca gctgccacca 240
gcgccagctc gataatttcc tgcacgctac aaccacgaga gagat 285

```

<210> 665

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (608)

<223> n equals a,t,g, or c

<400> 665

```

atgaaaaata acagattata tatagtttga actatttttc gtgtgctttt tttaaacttgt 60
taaaaagaaa tttatataaa atttaaaata caaatgttaa attatccaga aatacagaat 120
agttaatatt gctagaacca aataacctct aaaatgtttt ttttttggtt attttgtcat 180
gctaagcact tttgtatctg cacaattcag taggttaaga atcaatcttc tttttcttaa 240
tagtacagca gacttttagct tcaagtttca taggcttagt acttatatct agacatttgt 300
gtctaaataa gcttttcatt aactttttat tttaaggaca gtatcttttc atgaaagagt 360
atgttgctga atgtttgcta tatatatgtt acttgaaatg tttaaatttaa tatgcagcat 420
accatagggtg tatatatagg tatataattt taagggttaaa atattcagtc tacaagtttg 480
gttccttatt taagcttttg ggctaatact gcataatggca caatgtttta atattggcaa 540
kttcatctca raraagggga tcaratataw ttttaaagtt naaaaaaant tactgaaacc 600
tccccctnaa aagcctacct ttatttaaac c 631

```

<210> 666

<211> 1529

<212> DNA

<213> Homo sapiens

<400> 666

```

aaaatttgct gtaataccaa aactaacctc atcaaagata cagaaaaaaaa gaaatatagt 60
gagccctaaa ggacacatac attgaataaa taattggaac atgtgggttat ctttagatcc 120
acatcttagc tgtcatttgt tcactctaaa actgatgttc atctttctgt taatttcctc 180

```

457

```

ctgcctaaag actacatgac agaaatgacc tctactact tattatttct gaagcctaac 240
tgcaagactg atttctgaga acaagtaaag aactggaata cttatttttc atataaaaaat 300
ctaaatgtgt taataaatca ttccatacaa aagtacatta ttaaataacc acattattaa 360
aataattgca agaaaatgga ccatatttac aatgttttgt aaacttgcta gtgtgtggat 420
atgtacccta cttgtgaaat acatttgaag atataaagag cagccaaaat gatggcaaaa 480
tggtaggcta atattttcta ttattatttg agaacatata atattttgga atcatgcaat 540
tttgcacaca gtgaaaccat taattttcca aggtaattcc tttagaatat ggtattggca 600
tgcagtttct tacttatcta gaatatttgg cttatctgaa agatatcaat ttaagatctc 660
tggaagtgtt agaatttttg atccttcaca gtgtcaatat ttaatgaatc actaagcttt 720
atttattaga cgtgttgagt gagtgtctgag ttcttctgtg ccacttttgt taccattgtc 780
acacactatg tgtaaaccag tcccaccact tattactaat aaaattttga ctgataattt 840
atatttgcac ttacaatata tatatcctgt ccttatattt ctctagagta cattttccat 900
catgtttaag tgtatttctg ctattatttc ctctcctgca gaatacacac aagtgtatgt 960
gtataaagtc atacatgtac aagcatgcat attgagattg aatcacattt ccatactgtc 1020
tgttatttta ttgggkttta tattgggttt ctttagttta tgttggtttc tcaaaagcag 1080
cattttaaat tacgratact ggacttattg gatttaatta taaatccaat tactactgga 1140
aactcatttt tacataatat agtccttaaa ttatttaacc cttgctaagt aattgacata 1200
tgtaacaata actagcctaa agaaacscwa aaaaagtatc tctcccgagc tgaaacttaa 1260
aaattcgtaa gtgtgaagaaa gaatgtgaga atataattaaa tgcacactgt accattagat 1320
gaaatcttac ttgagaaatt gccataagcc atattacaga tcttactttg ttactgaatc 1380
agattaattt cttgtttataa taattttcat cataaatttt ctatttttaa agccgctggt 1440
actagaaata ttcttttaat gctatatcta tgtacctact gacacatttt tctccataaa 1500
agtactttta aaaattactt catgatttg 1529

```

<210> 667

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 667

```

tcgacccacg cgtccttaag tttttcaagt tctccttttc tgaggaaaat tattctagag 60
gaacctaaaa agggacaaaa aaattgaaac ttcttaggag tctaactctg gtgccttctg 120
ttaaaagtca gtgtatcaga aaagaaagca gccatgtaag aggctaactt aartagaagt 180
gctagaaata tctttgtgta ttaacatgca ataaaaggta ccattcaaag caggggggaa 240
ggtaggaaga agaggtaatt ttactgaaa attagggcaa tgttggtcgc cttttattaa 300
aagctttttt taagctttca taaagattgc tttttgctat ttttgaaaat atggtattat 360
agtttgtatg gtaactgggc atatatgaca gtctactgca tatatatgaa tgactaggat 420
taatctgggtg tgtttacata ggatatacat agttgaaatc tagcatgaaa ggtaaaaaag 480
gagatactgc acaatatattc ttaaaagtaa aatgctgtta ttgtgatgag tctttgggtt 540
aacatcacag tattctgtga tgtcttttta actttttgga aagaggtatc attttagtaa 600
aaaatttgat ttgggttaaa tatagggttt taaaactata aatgttgtct tttttatatt 660
tttatgaaaa agcagtagaa aattactttt gaagaaaaca ggctatttaa atattgaaat 720
atatgtatgt tgtgagttaa aggagcctgt aattgtcagt ttacaaaaac catctgtgtt 780
caatggttgt aaataaattc tcaaaacatc atttcaaagg ctgcctacag aatattatca 840
cttgacagat agagttaata aattaccaat caggcacatt ttataatgtt tgtctctgta 900
aaggtaatat tagcagttaa agaacacgga tgagaaaaga atgtgttaca taggttgcac 960
cacttgcagt taaataaaaac tcacaatttg tgctcacagc aaaaaaaaaa aaaaaaaaaa 1020

```

<210> 668

<211> 810

<212> DNA

458

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 668

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ggcacaggnc atttttaagt gtttagagtt ttttgggggtt tgggggtgggtt ttttttcctt 60
gttttccttt tttcctttta attggatgca ctgacctggc ccaggaaatg aagagattct 120
cttttgatgc tattaccaat gttatcataa agtgacagtc acctgtaaca aaaagggtggc 180
accagacatg atcactgatg ttttatttgc acatcaatat ttttattttt gtattctggc 240
tcagctgctt ctctgagtgg agttaaggaa tgagccacaa agatttttgt agtaggtata 300
ttggcattgc attttatatt cctctatatt taattttgaa aacctaaaag aaggattgtg 360
catcttgaga gaaagttgag caaattgtga tctagcggaa tgttaatttg tgctgcttct 420
tgtgcacgat agcagcagta gtatctctct tggaaaataaa catcccatat tatgatgtct 480
atgaatatag gtttcctttt ctctcctccc tccctccttc cccaccttt ctcttttttt 540
tttctctctc agcttctctt tctctccttc cctcttccct tctcttttct ttactttttt 600
tgaaatcact tattgtaaat aagttgtaat ccaaacctca tgtatcaatg gggaattttc 660
aaatataaat attaccaatg cattttctgg ktggtggctg atttttgatt gaagataatg 720
agaatgacat gtctgggtgt ttkgggtgag gactcgctta gtcataaac tttkggattt 780
tagaattcaw tgnttaaccc ggaaaaggcc 810

```

<210> 669

<211> 2501

<212> DNA

<213> Homo sapiens

<400> 669

```

taaatatgca tatagtagag tgcaaaaata tagcaaaaat aaaaactaaa ggtagaaaag 60
catttttagat atgccttaat ttagaaaactg tgccagggtgg cctcggaata gatgccaggc 120
agagaccagt gcctgggtgg tgctcctctt tgtctgccct catgaagaag cttccctcac 180
gtgatgtagt gccctcgtag gtgtcatgtg gagtagtggg aacaggcagt actgttgaga 240
ggagagcagt gtgagagttt ttctgtagaa gcagaactgt cagcttgtgc cttgaggctt 300
ccagaacgtg tcagatggag aagtccaagt ttccatgctt caggcaactt agctgtgtac 360
agaagcaatc cagtgtggta ataaaaagca aggattgcct gtataattta ttataaaaata 420
aaagggattt taacaaccaa caattcccaa cacctcaaaa gcttgttgca ttttttggtg 480
tttgaggttt ttatctgaag gttaaagggc aagtgtttgg tatagaagag cagtatgtgt 540
taagaaaaga aaaatattgg ttgcgctaga gtgcaaatga gaactagaaa gttttatacg 600
attatcattt tgagatgtgt taaagtaggt tttcactgta aaatgtatta gtgtttctgc 660
attgccatag ggctgggtta aaactttctc ttaggtttca ggaagactgt cacatacagt 720
aagctttttt ccttctgact tataatagaa aatgttttga aagtaaaaaa aaaaaaatct 780
aatttggaata ttgacttgt tagtttctgt gtttgaaatc atggttctag aaatgtagaa 840
attgtgtata tcagatactc atctaggctg tgtgaaccag ccaagatga ccaacatccc 900
cacacctcta catctctgtc cctgtatctt ctccctttct accactaaag tgttccctgc 960
taccatcctg gcttgtccac atgggtgctt ccatcttctt ccacatcatg gaccacagggt 1020

```

459

```

gtgcctgtct aggcctggcc accactccca acttgacctt gccacattca tctagagatg 1080
gttcctgatg ctgggcacag actgtgctca tggcaccat tagaaatgcc tctagcatct 1140
ttgtatgcat cttgattttt aaaccaagtc attgtacaga gcattcagtt ttggctgtgg 1200
taccaagaga aaaactaatc aagaatataa accacattcc aggctgctgt tttctctcca 1260
tctacaggcc acacttttac tgtattttct catacttgaa attcattctg ctattttcat 1320
atcagggtac agacttataa ggggtgcatgt tccttaaagg tgcataatta ttcttattcc 1380
gtttgcttat attgctacag aatgctctgt tttgggtgct tgagttctgc agaccaaga 1440
agcagtgtgg aaattcactg cctgggacac agtcttataa gaatgttggc aggtgacttt 1500
gtatcagatg ttgcttctct tttctctgta cacagattga gagttaccac agtggcctgt 1560
cgggtccacc ctgtgggtgc agcacagctc tctgaaagca agaaccttcc tacctattct 1620
aacgtttttg ccctctaaga aaaatggcct caggatatgg atagacatag caagagggga 1680
agggtgtct cactctagca accatccctc cattacacac agaaagccct cttgaagcaa 1740
aagaagaaga aagaaagaaa gcttatctct aaggctactg tcttcagaat gctctgagct 1800
gaatgctctt gtccttttcc caagaggcag atgaaaatat agccagttaa tctataccct 1860
tcctatctga ggaggagaat agaaaagtag ggtaaatatg taacgtaaaa tatgtcattc 1920
aaggaccacc aaaactttta gtaccctatc attaaaaatc tggtttttaa agtagctcaa 1980
gtaagggatg ctttgtgacc cagggtttct gaagtcagat agccattctt acctgcccct 2040
tactctgact tattgggaaa gggagaactg cagtgggtgt tctggtgcag tggcaaaggt 2100
aacatgtcag aaaattcaga gggttgcata ccaataatcc tttggaaact ggatgtctta 2160
ctgggtgcta gaatgaaaat gtaggtattt attgtcagat gatgaagttc attgtttttt 2220
tcaaaattgg tgttgaaata tcactgtcca atgtgttcac ttatgtgaaa gctaaattga 2280
atgaggcaaa aagagcaaat agtttgtata tttgtaatac cttttgtatt tcttacaata 2340
aaaatattgg tagcaataaa aaataataaa aacaataact ttaaactgct ttctggagat 2400
gaattactct cctggctatt ttctttttta ctttaatgta aaatgagtat aactgtagtg 2460
agtaaaattc attaaattcc aagtttttagc aaaaaaaaaa a 2501

```

<210> 670

<211> 429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

460

<400> 670

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ctcacttcgg gcatgtgac ctgggtatca ggtgttacat tatatagtat tttacagagg 60
aagtagctca gcaaatttaa ctggcctcag agtctgtggt tcagttgggt tgcacagggc 120
taaaagctgg tgagtgggtt atacaccatc acaaaggatg cccattcttc gcagtgactg 180
cagatgcgtg cggacggaga gcacaaggat ctcactatca tttctccctg ctaactccta 240
gaaagctttc cactttcttg gacacgttat ttaaagtgtt atagtttggt tttttaaaact 300
tgtgttcaga aaacacttac caccatattg ctteactgta ctattccaat tcagctcctc 360
tgttaccna actctatatn gtgcttggt aactattcca tgaaatttan taccnggaag 420
aaattaggc 429

```

<210> 671

<211> 1482

<212> DNA

<213> Homo sapiens

<400> 671

```

cagggcactg agtgattctg gatgggcttc tgacctgggg acaattttaa cagcattaca 60
accgacattt tgggtttctt ggggatttta taggccaggt acaaagcaga aagtgcatag 120
aagatgtgat ccactttgcc tgggaagaga agctctttct cctggctgat gaggtgtacc 180
aggacaacgt gtactctcca gattgcagat tccactcctt caagaagggt ctgtacgaga 240
tggggcccgga gtactccagc aacgtggagc tcgcctcctt ccactccacc tccaagggct 300
acatgggcga gtgtggttac agaggaggct acatggaggt gatcaacctg caccctgaga 360
tcaagggcca gctggtgaag ctgctgtcgg tgcgcctgtg cccccagtg tctgggcagg 420
ccgccatgga cattgtcgtg aaccccccg tggcaggaga ggagtctttt gagcaattca 480
gccgagagaa ggagtcggtc ctgggtaatc tggccaaaaa agcaaagctg acggaagacc 540
tgtttaacca agtcccagga attcaactgca accccttgca gggggccatg tacgccttcc 600
ctcggatctt cattcctgcc aaagctgtgg aggctgctca ggcccatcaa atggctccag 660
acatgttcta ctgcatgaag ctctggagg agactggcat ctgtgtcgtg cccggcagtg 720
gctttgggca gaggggaaggc acttaccact tcaggatgac tatcctccct ccagtggaga 780
agctgaaaac ggtgctgcag aagggtgaaag acttccacat caacttcttg gagaagtacg 840
cgtgaggacg cctgagcccc agcgggagac ctgtccttgg ctcttctctc caatgcccgt 900
caggctgaac tcgcctcccc cgtgactctg cctcgggcct cgcagaggcc gctggtcact 960
tcgtcatcat tttgccccctg gagacgtctt tctttgtgcc ttgatgttga gagcgctct 1020
cttttgagca aacaagcatt ctatatgcaa ccagagtaga ggggacctgc tcagcagggtg 1080
tgaccagggg tctctgaatc tgttattggt tttgcttctg gaaagttcat ttgggggtta 1140
caacaactag gatgtgttgg gtgagatggt tcagatctgg agaaatgagc aggtgtcggg 1200
aaatgtgtga cttaaccgtg gtgagggctg gaaatccaaa ctcaccacca tgatctgtgg 1260
catcaggctt ctcccagtac aggaggggtc catccccag catgcggctt ctctgccatt 1320
agcagccctg ggcgggcgga ccacactcga ggctgcgggt ctacgggctt agcctcgct 1380
ccctcactgg gagcttcccc atcctccctg ccttccccag tgggaagtta gggaagctca 1440
ggagcctggg accccgcatg tcccaaaatg ggattggaga ag 1482

```

<210> 672

<211> 607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

461

<220>
 <221> misc feature
 <222> (585)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (596)
 <223> n equals a,t,g, or c

<400> 672
 aattcagcac gagatgtcac attgaagaat ttcttcatga tacattttca ggcacacttg 60
 taggaaaatt aggatcatga gtcctgcttt aagtatttgc agtgtagtaa gagaatccat 120
 cttttactag gagaccagat tccttttata cctcattcat catgctggat tgtaataaat 180
 ttcagatttt ggaatgggct tatttaactg acctaacaat cttgatgatt tccattagaa 240
 taacttattc taagggtcaaa agtgggaaaga cactgttggt ttttattttg atttcactat 300
 actcattttt gaacatggaa atacagtggg gaaaccmctt atgcaaaaat gataacagtg 360
 aggaaattat gacagtgaag gagatctgac ctaactatct atcttgccctc gaaactgccc 420
 ttggtcgttc ctgagtgtgg gccaaagctaa ctttggggaga aatttacttt atagggttaa 480
 ttataatagc ccttccccna aactaaacgg atttctctgc ctcagcctcc cgagtagctg 540
 tccttataat accatcagcc tatcatttat tcgtcatggt atggnttggt tcccanatcc 600
 cctatcc 607

<210> 673
 <211> 470
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (389)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (469)
 <223> n equals a,t,g, or c

<400> 673
 ccattcaacc cagtacaaaa tccaactgaa gccagcaag tggctcatgc ctgttctatc 60
 tctgaggaca gttgtgattg gatttagggc ccatccagtt agtccaggat gatctcatct 120
 caagatccta aatctgatta caattgcaaa gatcctttt ccaaataagg tcacatgcac 180
 gtaagtcccg gggattatgc ttgcgtggga cacatctttt ttgaggccac cattcaacc 240
 actacaaaat ccaactgaag cccagcgaag tggctcatgc ctgaaatccc cgcactgtgc 300
 gaggccaagg caggagggtc acctgaggcc aggagttcaa gagtagcctg ggcagcgtag 360
 ggagrtccck atctcttttt tttttcgana tggagtttcg ttcttggttac tcaggctgga 420
 atgcaatggc gcaatcttgg ctcactataa ctctctctc ctgggttcna 470

<210> 674
 <211> 1110

462

<212> DNA

<213> Homo sapiens

<400> 674

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ggcagagctg ttttggagat tgattgggtg ggtctagagc cagaattcat atttttaata 60
tgcattccag gagactcctg cgaatcagat gcatttggaa atcattgcac taagtcatac 120
ctctgggtac tccaaacagc tagtcctgag gcttccttgg gccttagaat tttttcttca 180
aatgtcctgg tgagggtccct ctcaatcctt tggggctggc tgtggtgagt cactcagaag 240
tctggctgtg acctgggatg ggctcaccag agtacgctat ggtagtggga aaacaggcag 300
agagaaagga gtgtcaggag cactcccagg gaggtgttg tagatatttc cattcccaga 360
acagtgatct attgtgacag tctcagaaca gacaacaaga attacaggta attttctcat 420
tctcttgata tatttttagc aaaacttaaa tcatgaatag aaggaaaaga tgccattggg 480
gaaatagaaa aactcaatca ttttataaag catacaaatc ataaggatga ctggccaata 540
gcactcccac tttggtctta cctaaagtgg ggtggacaag aataataaaa gtcctcakt 600
tatatccttc caaaatcaga tttaaatgct gccagcatct taatggaagt ctgaaattga 660
ttgataggat gtgaaatcc aaattcacta aaataggggg ccagctacat aaagtcctag 720
aaggaaaaag tgcctcgctt ttttctgcca ttatcctacc ccctagtcac ctggggaatt 780
gatctatgaa gcttgaagaa ggggcattta acatcagagt ggtgcaaggg cagtgttgag 840
atgctttaag cagcagcctg agcttttagca ctatttgaag gggagaaggt taataactaa 900
aatatttgtg ttatttttat gatataattac tgtttacaga acactttcat ttgatcccaa 960
catcaactgc tgtgatagag gcagggcaga tgttgtggtc tcattacata gaatgtaaaa 1020
ctgagggtga aaaataactaa gtgacttgtc tgtagtcaaa tggtttttaa aattataaag 1080
ccaggccttc tgactgtcaa aaaaaaaaaa 1110

```

<210> 675

<211> 250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (245)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<400> 675

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ggcacgagcg gcacgagcta gttcctaate ttaatctagc ttcaacattg ccctgcttgc 60
aaatttacta ctttttaaaa tgacttgaat cttctctatt ttacagttc ttgtctattt 120
tttccctgta acagtgtgta tgaacactaa tgtggtgttc aaccctccct ttcaatttta 180
gagaattgga ttctatattg gaacgtcact taaatttttg agtcctcaaa accaaccttg 240
ttggnntggg 250

```

<210> 676

<211> 692

<212> DNA

<213> Homo sapiens

463

<220>
 <221> misc feature
 <222> (50)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (73)
 <223> n equals a,t,g, or c

<400> 676
 tgggggctct ggactgtggc tcacccgctt cctccacacc ctattttcacn ggcctggagc 60
 tcccagggga ctngaagctg gacgcgcctt acaacttcaa ccacccttty tccatcaaca 120
 acctaattgm agaacagaca ccagcacctc ccaaactgga cgtgggggtt kggggctacg 180
 gggctgaagg tggggagcct ggagtctact accagggcct ctattcccgc tctttgctta 240
 atgcatccta gcaggggttg ggaacatggt ggtgggtatg gctggagctc acaccacgaa 300
 gctcttgggg cctgacccct ctgggtgacac ttcacttgct ccattgggtta acatctgggt 360
 ggggtctatta cttactgtga tgactgstgt ctcagtgggc atggtgttga tccacggggt 420
 actgtgataa ccaccatgtg ccatgatggc tgctgcagcc ccgtgttggc catgtcgtca 480
 ccattctctc tggcatgggt tgggtagggg atggaggtga gaatactcct tggttttctc 540
 tgaagccac cctttccccc aactctggct caggagaaac cagaaaaggc tggttaggggt 600
 gtggggaatt tctactgaag tctgattctt tcccgggaag cggggtactg gctgtcctta 660
 atcattaaag gtaccgtgtc cgccctctaa aa 692

<210> 677
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (356)
 <223> n equals a,t,g, or c

<400> 677
 ttgatacgac tcactatagg gaaagctggt acgcctgcag gtaccgggtcc ggaattcccg 60
 ggctcgaccca cgcgtccgat tgttttgtat tttctagagt tttatataaa tgggaattaca 120
 tagtatgtac ttttctttat agtctggctt ctttctactca aataattatt ttgagattct 180
 tctctgttgt tgcattgtata aataattcat tcattttttg tagtaataac ccattatatg 240
 ggtataccaa aatttatcat tcatttgctg atgagcattt gggttattta cagttttatt 300
 tacaawtaaa gctgttacga atattagtgt acgagtcctt atatggacat atattntcat 360
 tt 362

<210> 678
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (87)

464

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<400> 678

```

aggattcagg ctgcagaaca taagacacgg aaagacgaaa aacgcaaagc tgaggaagcc 60
ctcagtgacc tcagacgtca tatgaanctg naagtaggag atctgcaggt gaaccattaa 120
aaagctaaga aagctcgaag aacaatcaaa aygcgtaagt caaaaggaag atgtggctgc 180
attgaaaaaa caaatattatg atttatcaat ggaaaaccag aagttaagaa agacctttta 240
gaagcacaga caaacatagc ctttcttcag agtgagttag atgctttgaa aagtgrttat 300
gctgacmga gtctgawtac tgaaanggat cttg 334

```

<210> 679

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<400> 679

```

gcaggaaggg tagaggggac tggagttggc taagttctct ttctccaagt caggtaagac 60
tctgggtgcag ctttttcctt tgggtggtctg gcctttattg tggaaaatgc tatgggttca 120
tttcaaaatg gctatctttc aaacctgagc atatttcaaa atagttactt ttttctgcc 180
catggtcaaa caagagagtt ttctctgtgt cttcgccatg agaacctggg agggcatctg 240
aaggtaaaat ccgtgaatgt atgagggctg cctttaactt aaacttgaaa cctcccaggg 300

```

465

```

gattttatct cacaagcctg atcagtgttc aagytcacac agytaatcaa ttatcattta 360
agcattctta gctgctcatg cctccagcag ttccaaatcc tggcaaacta tgattctgtg 420
tatttgcccc tcgctccagt ttttggggca tgagtttttt tctgtaactt ctgggtctctg 480
atggatctca gaaaattcat taattttcaa tttgtacatc ttttctcttg gtaggacagg 540
aatgatcatt tacaagctct ttatatgtca nagcccaaat canaagctgn aataatccca 600
naaattgggg ttt 613

```

<210> 680

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 680

```

ggaaccaggc tgtggtcctg acctccagca gctgccagtc atcttggcaa catagaaaat 60
caaggaaacg gcctaaaggc aggcagaagt gtgtgtcagc aaggtcccaa ctatgtaaga 120
tggacacgag ggactcacct tcagggagga aagagccggg gcagaacgtc aggagactgg 180
ccaaagggtc ttccctgctt tcaggacgag actagactcc tcagtccctg atttmaggct 240
cctgccaccc gctgctgct cactgatccc tccctccac tgtcggcctc catccagggtg 300
gcagtgcctg cgctttgtma ggctctctct tgtctctgca ttttgcacaa gctctgacct 360
anttaccgaa atgtntctnca accacctnca tcttgcattg 400

```

<210> 681

<211> 585

<212> DNA

<213> Homo sapiens

<400> 681

```

caaagggttt tctttgaaga caggtsaaat gctgttagta agtttcagga gattgttaat 60
tcctcagtta taccagattt tataaaatat ttgagaatag atggctaaca agaggttaga 120
aatacttttc cttaatttta atccacagta tgttacatgc attctaccac tacattttgg 180
tgctatttaa ggtgtgcamt tttctatagg tgacttttgc aattcaggga agatttgggc 240

```

466

```

atattaaatg aaagaatatc taattggggg aggtgtgaag ggaaagaaat tcttttcaaa 300
agctgaccac aaagagkagt taaaagtttt tgctactatc ttcacaagtg tgtaaagcac 360
agatttcaac agagtgttg gcatattgka ggggtgctcaa tgggtggkttt tattattatt 420
actcagattc cacagtggca agaaacatca ttctacataa tggaaaacat ttacatcaaa 480
tcccacttac tttaatgcga acttggagat aatttatggg attgtattgt aaaccattaa 540
tgaaaacttt ttcacagttg agtgaaatta aaatcactat atctc 585

```

<210> 682

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (576)

<223> n equals a,t,g, or c

<400> 682

```

ttgcagctat acaaaatatt taaaatctca agtattcacc ctagatagag ttattatcta 60
agcattttat cttatccatc tcaaaaagaa aagaaaagaa gactctgacc tgtactcttg 120
aatacaagtt tctgatacca ctgcactgtc tgagaatttc caaaacttta atgaactaac 180
tgacagcttc atgaaactgt ccaccaagat caagcagaga aaataattaa tttcatggga 240
ctaaatgaac taatgaggat aatattttca taatttttta tttgaaattt tgctgattct 300
ttaaatgtct tgtttcccag atttcaggaa actttttttc ttttaagcta tccacagctt 360
acagcaattt gataaaatat acttttgtga acaaaaattg agacatttac attttctccc 420
tatgtggctg ctccagactt gggaaactat tcatgaatat ttatattgta tggtaatata 480
gttattgcac aagttcaata aaaatctgct ctttgtatra cagaatacat ttgaaaacmt 540
tggktatatt accaaaactt ttgactagaa tgctcgnattt gaggatataa acccataggt 600
aataaacccc 610

```

<210> 683

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<400> 683

467

```

tcataattttt antttttttt ttttctgtta tacaaagagc agattttttat tgaacttgtg 60
caataactat attaccatac aatataaata ttgcacaagt tcaataaaaa tctgctcttt 120
gtatgacaga atacatttga aaacatttgt tatattacca agactttgac tagaatgtcg 180
tatttgagga tataaaccce taggtaataa acccacaggt actacaaaca aagtctgaag 240
tcagccttgg tttggcttcc tagtgtcaat taaacttcta aaagtttaat ytgagattcc 300
ttataaaaaac ttccagcaaa gcaactttaa aaaagtctat gtggtcagtc actactcttg 360
ctgcagttat gaaaaanaat gangccaagt ctgatgaaaa taaacttatt ttgaa 415

```

<210> 684

<211> 653

<212> DNA

<213> Homo sapiens

<400> 684

```

ttagcttctc attgagattc ctagagggtgc gttcgagttt tcagagtaat tttccagacc 60
aaccagcgtc agtgggaaat ctgacctctt ttggcaaact gcgatcattc attttctctga 120
gtccccgtgt ggggtggggg aattctgcct caggaccttg aggggtcttt ggggcaagat 180
ggccttggtta atgcagccac taagaacagg acttcattca aaggcataat gaagtaacca 240
gggtgaccat caagtaaaat taaagcaca gatcattgta ggaggcttcc ttgtcaaaga 300
cgtgaacgtg ggattttcaa cgcaccacgg tgtgtccact catcactgca tgttaggaac 360
tgctgtctct ttgggacacg agttaaaaga acacactaat ttctggagtg tgcctgcagc 420
ttcacggcct tcattttgtt actaagttat tttctggaag aacagcaaaa atttcagggt 480
gaaaacagaa ctttccaagt gctactgaaa tccgcagag aattacgctg cgatgggtggg 540
tttcttacc tagaaacatc ctaacctgta tccacagaag atgtcctttt atttttttta 600
aagatcaata aatcaagag aaacgaaaaa aaaaaaaaaa aaaaaaaaaa aaa 653

```

<210> 685

<211> 319

<212> DNA

<213> Homo sapiens

<400> 685

```

gttcagcctc agcagcctg caccagggcg ctcattaaaa cagcatgttg ctccccactg 60
cctcgtgttg tctgttggcg cgctgtcggg gttcgaaccg atacaagaac cttccaccta 120
cctggtgctt tgccctcatc tataagcttt tccactgtcc tgaaacaaga tagaraatct 180
gagcggccag tcactgtccc taagtgtgc cgccgaagac tgaatgtcct ggaaagtttg 240
ctgtcacatc tccattatga caaaagcatt gtgccgaaca gatgaaaaaa tgcattgtca 300
acggaatctt ttatgttag 319

```

<210> 686

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

468

<222> (260)

<223> n equals a,t,g, or c

<400> 686

```

gcctgttctg gacctgtata aaaatgtcta cacagtagaa gtgacatcaa ggtttaataa 60
gtatatcaat gattggcaca tataaaaatt gttgaaccac atactctgaa cttggctaata 120
ttagttactg caggcctcca ttatccagtt ttatttttta cacgrttgac cttgccttgt 180
agctgggtgct gtgtagacct gtgttgraaa cacaatcgga atatatgaat aattgaataa 240
acagcattat ggngaggcan agacacatgg agaagtgtta a 281

```

<210> 687

<211> 178

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 687

```

gctggtcagt gcagcccat tctgacatta ctatgaggtc ctggatatcc attccttggg 60
gaggaccagt aagacatctg ctccatccct ggaactggat aattttggaa nataaaccag 120
ggacctagcc aacagaatgc cttagcaatg cccaggggtc aatgggctg gcattctt 178

```

<210> 688

<211> 337

<212> DNA

<213> Homo sapiens

<400> 688

```

ggtaggaggc aaagcagtggt gtctctctca ccagccgctt acgggaccct gccatgcctg 60
gacctctcta tcaggaagac ctaccccagc actactggaa aatcagccaa tcttaacca 120
aagatggcca tgatttctgt atgtgagacg tcttaaggggt gtttttgttt gttttaatca 180
gccctcttgt ttgagatttg gcaatacatt tctgttttct argttatttc tgtgtctgat 240
ggtwgargat ctaataagta ttggaatgct tcctatttgc tgatagaakt accaaatagt 300
attattgaag tctaacaag acttttgttg agaacac 337

```

<210> 689

<211> 1135

<212> DNA

<213> Homo sapiens

<400> 689

```

gccgaatagg tgtttccttc attgatgatg gaagtaatgc aacagagtaa gtaccattcc 60
aggagtgtct aaagccgagc tttgagtgt catgattgat aggacttgaa gaataaaaaat 120
agaaacaatt gacctctcag gtgagaaagt cacacaaaac aagctactgt taaaagactg 180
aatattttta gttttctgt aattatcagt tatttttctc agtctcctta gaaaaatggc 240
aacacagatg gtatctgcac agcttgcac aatgggtgtg aataacccaa gtcagcaaca 300
atztatgcaa tttggaggaa gctctggatc acagttgcct caaatccaga cagatgttgt 360
acttccatca tgcaaaaaaa aagctcctgc tgaaactcct gtgaaagaaa gactttttat 420

```

469

```

tgtgtttaat cctcatcctt tacctttaga cgtattagaa gatataattct gtcgttttgg 480
taacctgatac gaagtttacc ttgtgtcagg aaaaaatgtg gggatatgcca agtatgccga 540
tagaataagt gctaatagat ccattgccac tctacatgga aagattctga atgggggtgag 600
acttaaagtt atgctggcag attcgccaag agaagaatct aacaaacggc aaagaactta 660
ctgattcttg agtggccctg aagctgcact atgttgaggg tttccttgac taagagaacc 720
acatgcgcca ttcagctcag taggggagtc ataaaagatc tcgcctctga ccagaagagt 780
atgaatgaca aaggtgacat aaccagcaca gaaagatgtc ttagcctctg cacatcagct 840
gatttagaat acttatgtag atagcggttg gggtcggggg ggtscggaat gttcttttca 900
gcttctttgc ccygagaact ttgatcttat tgcaaggaag tcccttacct tcttctacct 960
tagatctgat ggacctcctg ggatttcttg gggaaatraa atgagtctaa cacctttgac 1020
cacctgctgg atattatata agcacttact taagtaagct gtggaagagc tgaaagcagt 1080
attcagagtc tgacagttct ctgcaattgg cctagataaa ctcattgtga aataa 1135

```

<210> 690

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<400> 690

```

aagagcgaaa ctccatctca ggaaaaaaaaa aaaaaaaaaag tatattctaa cagacagatc 60
agaggtctaa gagatcctcc cttgctatta ttacctgaag tctgtagaac tgtttacaga 120
tatctccttg acaggtgtcc tttatcttac tttatctgta cagtaatcct gtgagaaaga 180
caggacagaa accactgtgc ctattttaca gatacgaaaa ctgagacaca ggtaaagggg 240
cttgctgta gtcccatagc tagcagatgg ctggagccaa gactgaggct cgttcttcaa 300
tgctgagcca ggtccttcc gctgcaccac aagaacgcta gaccactcgc caccagcctt 360
ttcattccct ctctctccat ttaancaatt ttaagctggg tgggcctccc aaagggcttt 420
gggaaana
428

```

<210> 691

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

470

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1287)

<223> n equals a,t,g, or c

<400> 691

```
aagaaatcgg ggcgtatata cctgtaacag gagacagawt tggacamcaa ggrttttaag 60
agycattgcc cattgtaaag cattaagcca gagctgggta ttcattatca gactaactac 120
atactagtcc atgctagtgt cagcctatat taaaatagtc tttccttgcc atagtgtctg 180
cgaaaaccca atcccttctg atgaaacatt gcttcttggg aagacaagct gaggaaagca 240
atgaagatcc cagtgtcggc ctttattgag ctatgtatga gggtcagggt ccctcaactc 300
ctagtgacta tgaagcagca gtgtgatggc ttgcacctct ttgccccctc gtcacatc 360
ctttgcatgt ggctatttta agcttctcag ctttcttttg ggaggcttca tgtgtaactt 420
attatagaaa tgttactgaa aagctgccta aacaaaaaat tgtataaagt aggaatttgt 480
ataaagtaat actgttgtaa atccatcttc aagatgtaaa gaatcaattt gtaaagtgt 540
tattttcact tctcccttca aatttatgtg aacaagtttt tcatgtttca atattgctta 600
cataggaata caccttacgt ttttatcagt ataaatggaa catttaaac cagtcaacaa 660
cagaacagat aatccagctc cctgtttgtg ttctggggtta attttgcaag gatgaagggc 720
tagaaaagtg tgagtttggg tgtgtttctt attttcagga taaccggctg cattgcagta 780
gaggaatgga atgggtgagg catttgacct gttccagggt agtggaggcc aaagaacatt 840
gtttctgcct ccccttggat gggaaaattg agaaattaaa aagttgcctt tccgaggaaa 900
caaaagttaa tttctctatt taaaataaat gtccaaaggc acccctctaa acacaaaaac 960
ttttagctcc tggcaaactt acctagctag aagttggaga agagtgcggt ttcaaaccat 1020
gcttcctttc tgcccttgcc aatacgttct cactgactgt gattctgctg tgaacacaca 1080
cacacacaca caaacacaca cacaagcccc ttctgtgtat gatcaggaca agtagttcaa 1140
cagttaataa aaaagttaaa ttattggatg agaaagatat atttaaccta aatcataaat 1200
atgtawatcc atttaataaa cactaaaatt gagaaaaaaa aaaaaraaaa actcgagggg 1260
ggcccggagg ccaattcgga nctgnan 1287
```

<210> 692

<211> 351

<212> DNA

<213> Homo sapiens

<400> 692

```
cctgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagccct 60
gggtgttcaa actcagtctt tcctgaagaa gaggatctga gttatcttct gaaacagcgt 120
tctcccttcc cagttgtatc actcttataa aaagactgtc cagtctatgt catgccttag 180
gagacaaact gttcctccca gccccctttg agtattgagc agaagaatca aattattaaa 240
tacgtatgtt tgtacagaat ggtatttgtg tatgtgtgtg ggcttagaga ttcacaagta 300
aatattcctt tgggtgaagga atttcaataa aaacatctat caagtgtcaa a 351
```

<210> 693

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

471

<222> (1010)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1080)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1201)
<223> n equals a,t,g, or c

<400> 693
ggcaaggaca aagaagattc cttttctggg agtttgtctt gggatgcaac tagcagtgat 60
agagtttgca agaaactgcc ttaacttgaa agatgctgat tccacagagt ttaggccaaa 120
tgccccagtt cctctggtga ttgatatgcc cgagcacaaac cctggcaatt tgggaggaac 180
aatgagactg ggaataagaa gaactgtttt caaaactgaa aattcaatat taaggaaact 240
ttatggtgat gttcctttta tagaagaaag acacagacat cggttcgagg taaaccctaa 300
cctgatcaaa caatttgagc agaatgactt aagttttgta ggtcaggatg ttgatggaga 360
caggatggaa atcattgaac tggcaaatca tccttatttt gttggtgtcc agttccatcc 420
tgagttttct tctaggccga tgaagccttc ccctccgtat ctggggctgt tacttgagc 480
aactgggaac ctgaatgcct acttgcaaca gggttgcaaa ctgtcttcca gtgatagata 540
cagtgatgcc agtgatgaca gcttttcaga gccaaaggata gctgagttgg aaataagctg 600
aaatgaatac atgactggga ataattggga ctgcctgtga ggccctctgaa ataattgaag 660
gcaagatgaa ggaactatct gaagaaatca ctacactctt agagaatccc tctgttctcc 720
agcaaacatg ggatgtaaag cctcacaggg aatctgataa tacatacttc tgtcaaccag 780
aaccagaggg gtagttttct tttccctcca gaggcagcct ttggtactta aaatatctgt 840
agctgattaa atttttccca acaacctcac tggggagaaa gtgtgttcat gttttgtcca 900
gcggtatcagg atgttaggat gacgagcaag agtccaggtc actgtgcctt tgctgtgttg 960
tatggaaagg atggcagggg acatgctgta agtaattttg agtaagaaan tgagtcactg 1020
tgttacctgg aactcagcca cagatttgtg tgtggtccaa gatcattgca gttttctcaen 1080
ctgtttatctt cctggttaaaa gtaaaattga ataggtccaa gacttggggg tggcaagtaa 1140
ggctttgcct caagcacaaa atttaagggg gctccaaaaa actcaggaat ccaagggggg 1200
nggg 1204

<210> 694
<211> 283
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<400> 694
gccagcccag gtcttggagg agcacaatct agtgttctac acaatggggt tttccatggg 60
tctccaggag agctattata caccagaag atccagcctt taccagcgt ctctcctttt 120
tctctcttgc tccccctccc tatgccaagg agtaggcaaa gkttgacatt tcgcacctcc 180
attgcccasc tcattctaag gcctttatct aaaggtggat aatggcacat araaaanttt 240

472

ttctataaca ggtagcac tttcctatgg tgctttggaa ttt

283

<210> 695

<211> 2733

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<400> 695

```
cacgagcaaa ggtgacagct tccggcaact gatgcctcca ctggccactc ctccctccgt 60
ccacctgtca cttcgggtag ctgggaggcc agttaaaaaa aatggaacct ttttctswg 120
acactttcgt ggcattacct ccagcaacag tcgataacag gattattttt ggaaaaaatt 180
cagatagact ctatgatgaa gtacaagagg tggtttattt tcttgctgta gttcatgata 240
acctgggaga acgtcttaag tgtacatata tagaaattga tcaagttcct gaaacatatg 300
ctgttgkcct gagkcgccca gctggttggt gggggcagaa atgggagcca atgagcatgg 360
agtttgcatc gggaatgaag ctgtatgggg aagagaagaa gtttgatgaat gaagaagcac 420
tattagggat nggacctgtg tcagacttng gccttngaaa gagctgatac agytgaaaaa 480
gccctcaatg tcattgtttg gacttactag aaaaatatgg ccagggtgga aattgcacag 540
agggtagaat ggtatttagc tatcacaaca gtttcttgat agctgatagg aatgaagcct 600
ggattctgga gactgcaggg aagtactggg cagcagaaaa agtacaagag ggagttcgta 660
atattttctaa tcaactttcc ataacaacca agattgcccg ggaacaccca gacatgagaa 720
actatgctaa gcggaaaggt tgggtgggatg gtaaaaagga gtttgatttt gctgcagcat 780
attcctatct tgacacagcc aagatgatga cttcatcagg cagatactgt gagggctaca 840
agcttctaaa taagcacaaa ggaaatataa cttttgaaac aatgatggaa attcttcgag 900
ataaaccaag tggcattaat atggaggagg aattcctgac cactgcaagc atggtttcta 960
ttttacctca agactccagc cttccttgca ttcacttctt tacagggact cctgatacctg 1020
agagatctgt ttttaagcct ttcataattg tgccacatat ttcacaacta ttggatacca 1080
gttcaccaac atttgaactt gaagatctag ttaaaaagaa atcacatttt aagcctgaca 1140
gaagacaccc actctaccaa aaacatcaac aggcattgga agtagtaaat aataatgagg 1200
aaaaagccaa aataatgttg gacaacatga ggaaactgga gaaagaacta ttcagagaga 1260
tggaatcaat ccttcaaaaac aagcatcttg atgtggagaa aattgttaat ctctttcctc 1320
agtgtacaaa agatgaaatt caaatttatc agtcaaatat atcagtcaaa gttagttctt 1380
agtgatcata tggtcagcta atattagttc ttagtgatca gtggtcagta atcttcaaag 1440
tcagaatcta tcaccttggg aaattatata aacctaaact gagcagatct gattattctt 1500
ggatagtatt caagtgggat cttgactatt aaactacgta tagtggtgct gaaatagaaa 1560
gaaaacagca ttggaattgg attcatgtat cgtgggatac aggtgttatt tcagggtgatg 1620
tacttgcatc attttcttta gccatagtaa ctttttgta caataactaa gtattcaatt 1680
```

473

```

atatataaag agtgaaacat taaaatgacg catggattta tatttattat aattatgtag 1740
taccctcaaa tcattttgtc agttacatca agaaagcaga tttttcttta gtcataaaaa 1800
atatctcaag tggtaagttg tttgtgcttt aggcaaacat taaccagctc taacaagaaa 1860
aatgtctaga tttacacatt gtcaatacag tatattagtt ctgcaaatgc acttttgtta 1920
aactcaaaca tgctctttgt caagacttgg ctaaccagtg agcttgtagc tctgattatc 1980
tagcattttt agggtcattc tccttaatag gcttttatgt taataagata tattttttaga 2040
agagcttggt tgggagatta gagaataaga taaaagaacc aaaaccttag gatatactgt 2100
ttctgggtct gaaatctctc tcattgttta cttctgttca ctcagtgaac acagaaacaa 2160
gaatgaggta gtggcaatga aatagaatta ttagtatatt atgaacatta taacattttg 2220
aacactataa tgcattatat attatgaact tttatgaact ttatacatga gtaatagctt 2280
cctaaagttt ataaaacatt gtttaggtta cataaagatt accaagtaag actcaaaaatt 2340
gcaaatataa acaaaagaaa aatccaactg aaaataacac taagtatttt tgagtttcta 2400
gaatgtccat tttggtattt gggtacatta tcataatttac tagtcactat cagcacaatt 2460
aggtaataa agaagtgggt catttatatt aaagagtgtc caggaagtta tgtgttcaaa 2520
gttctctcat aaataccatc gtctgcctga tactgctctt gtctaataga gggttgacat 2580
tacaaaagaa aagatgtctg actcaagaac tcagttgatt ctgtttgcct taagtttggk 2640
tcagtgatag gctgtcttct aacccttata ctctcttctt ctcctttaat agatgaggra 2700
actaagggca aacagttcgt tacacttacg gga 2733

```

<210> 696

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220> .

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

474

<222> (542)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<400> 696
tccctatagg gaaagctggn acgcntgcan gtaccgggtcc ggaattcccg ggtcgaccca 60
cgcgctccgct ctgaaaatga tctacagcac gatccagaag aaatgaactt tgtgggaaaa 120
gaacaaaagg ccacccaaag aggccaagct gtgatggaaa agaaaaccaa caggatgaga 180
tgaaagggga gattaacaag cwawataaga attgcaagga aatgaaatgc taggcgactt 240
acaatccttc ttggggggcag tgagagcggg gatgctggat gtgaaatcag tgacatggaa 300
ggcaaaactgg aaaccctgga tgaaagtgtg tcatgcacag aataccaaaa aagataaatc 360
cagaagacac agagccagtg ttggttttcc tgaggaagag acagcttgaa aaaagggtctg 420
tgtttgcaga ccaataacctg aaagtaaaty caaaggaaac agatccgnca ctagacacat 480
ggtggcaaaa atgtttaata accaagtgtc angggtagaa aaagaatggc cagatagaat 540
gngcgccctn ccctgncccc tctatcccaa gaagg 575

<210> 697
<211> 948
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (930)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (936)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (945)
<223> n equals a,t,g, or c

<220>

475

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 697

```

cacgcgtncg gtctcagaaa aaaagaaaat tcaaggccag ttaagacaaa atgctatgac 60
tttgaaattc acagaaagaa ataacagttt agattaggtc ttcaggtatt caggatagag 120
ataatctcct gaaaaaacctg aatttcagag attcttagac tggctgccaa aggatgaagc 180
tagtgaagga gaaaaagctt aaattccatc ttgagctctt ggattgtgat aatacaatga 240
tttcattaac ttttcatttc tgtataacctg ttcatttgga atttaatgct tgacttcttt 300
gttcattttg gatctaaact tctcttttct tcttcccca ttcacatcta ttagaagact 360
gcatcaccat ttctttggcc cccttactct gttgtccttt cccttttctt tcagtttttt 420
taatcgcatg tctagtatat taagtctcca tagccctcct gatgcagtag acagtgctat 480
gctgtggata taataccaac cagaaattgg catttataaa cctgttaaga gactttaagc 540
atgcttcaag aggcagttga cccactggaa tttctataag gctggtaccc ttcccagagt 600
tacagaatct trgggtgccg ctctagtctg tgaggggagga actcccagca tccccattgc 660
ccacaaatgg aatcctcact gtatccacta ggagattaga aattaagggt tcttccactac 720
ttctatggta ggggttgctg aaattccctt tcaggctgtg ggtactggtc ttgggttcta 780
gtcataaggg gtctcttata aggagcaggc ggaggggagt acactttcat gtgatttaat 840
tttgatcctg ccctctccag ctgctccttc aaaagataca taaaagata gaaactcttg 900
gctgggcaca gtggctacac actttgggan gccaanccgg ggggnntn 948

```

<210> 698

<211> 1494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1494)

<223> n equals a,t,g, or c

<400> 698

```

agatgggttt agcccaagag ttcgaggctg cagtaagcta tgatcgcac actgcactcc 60
agcttgagca aaagagagac cctgtctcta aaaaaaaaaa aaaaaaaaaa aaaagaaaga 120
aaactggagt gctagaacta ttttaatat gaatatgttt tttctagtaa tgtttttcac 180
ccttcttaca gatgttcgtg agcagcagtg gattgccacc aagtccagtt cccagtccaa 240
gacgattttc aagcaggaga agtcagagtc cagtcaagtg cattagaccc agtgttcttg 300
gtcctcttaa aagaaaagggt gaaatggaga cagaaagtca gccaagaga ctcttccaag 360
gcactaccaa tatgttatct ccagatgccg cgcaactgtc tgatctcagt tcatgktcag 420
atattttgga tggcagtakt agcagcagtg gcttatcttc agaccgctg gctaaaggca 480
gcgctaccgc agagtctcca gtagcatgct ccaattcatg ctcttcgttc atcttgatgg 540
mtgatctctc acccaagtga cttaaccatt tctgattcaa cgttttaact gctgtttcct 600
acataaaatg tttagtgggg aacgcagaga actttgatcc ataagtagga ttaaagtttt 660
acagatttca cacattctga tgctattatt actctttggc atctctcttc tccaaagttc 720
aattttgtga gcctagtga cttactagta tctgggtttg ctgatctcat tttggattta 780
gtgattaaat ctcaaagtgt gatttttgat tgcttagagg aatctttttt cttagtgcct 840
caaaaaacac ctattttgag tctatacatt taagaaaggc actgatgtgt attgccttta 900
atggtccttt tccgcagcag tgatatgaca gatttgatca gaaattctct tgcttgagag 960
attttttttt gtccctctgtt gactacatag tttcaaactc ctctttatct catgatgata 1020
tataaattgc ttttaattat attaaatttt tatttttctg catcagcttc aagtacatta 1080

```

476

```

ttttgtttcc ctttcctggt tgagccgctt atgccatttc tcacagaggg gaagaaatac 1140
gtagttgctt tcattactct tattgcttct ttgctgttg gggtgtgaa gtgagcattg 1200
attttagtgc tgagaatgta aacggactta caggatgctt ggattagtca tcacagggtc 1260
ttatgacttt gctaccacag ttgatataatt tctcctcaaa cctgttgccc taaggaaatat 1320
ataaaatatt gttgatattt ctaggtggtg ttatcaagga gaagaaattc ctgccttgac 1380
cagatgtgtg gagcatctac aaatgaatga atagttattt acacacaaac cactgtgtac 1440
aaaagcgtcc atggagctgt cagtgtctcg agtgggatta tgaggcctca ggtn 1494

```

<210> 699

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<400> 699

```

gaaagggttc aagtaaagtc aaatgatgtt ttggcaacct tttctcaaaa gatwctgcat 60
tggaatacag actgtaatat taaactacta tgtgtatatt gtttctacas ttgtatacac 120
cgtartgtct ttacaggta tataagggtc atggccctar tctaattcag atttaaacta 180
gtgcttgctt tgtaactctg caagtgatca ataactctct aatactgaaa gtcmaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgntntaaan 300
gag 303

```

<210> 700

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<400> 700

```

gcaccaattc tggaatgagc ccaaaactgag acgcagggga cctgagttct aggcctggct 60
ctgccgtggc ttgctgacct tggagaattg gagaagcttg tgccctgctg gaaagtggga 120
tggcagtacc cgcttcatct agtagtcggg gagatcaaga gaggtatggg acctgaagag 180
gatggcagac tgtgcagtgc ggtgcacacc ggtctccagg ttgttttcac cctcctgtct 240

```

477

```

cctcccagga gctaacgtat aaagctgagg ctccggccagg gactgtgata tacccacatc 300
cccggaacta ggtgatcgcg gtgcaggaac cagggtgtgcc ttcgcgggat ccatgccttg 360
aggcccagga acgccccgcc gccagcatgc cgtgggacgc gcggcggcct gggggtggcg 420
cggacggcgg gcccgaggcc tcgggcgcgg cgcgctcgcg agcgcagaag cagtgccgca 480
agtcgtcgtt cgccttctac caggcgggtgc gcgacctgct acccggtgtg ctgcttggan 540
gatatgc 547

```

<210> 701

<211> 2401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<400> 701

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ctacatccag tgacctatca gggatgcttg ttattttata caagctgctt tgttatcata 60
tcagcattct cttcagccag ctccaaggca gatagtcacc cctctctctg tgtggttggg 120
gtgggagcag gccccgtgga gggagcgggtg ctgaggacat gtccctggcg ttccgatgct 180
gctccatcga ggacccccctg gcctcaggag gaaggagcag gcgatgcagc cccttagtgt 240
ggtcgtgttg actgacaggt ggctgatgcc tgagcgcgcc ctcttcttsc rtcttaggag 300
acaccgtggt gaagaggaag cctgcttctc tgatggcccc tctgaagcgg aaggaggagt 360
tctccttggt caaggtgtct ratgatgaat ataaagtaac aatctcgcct casctgctct 420
tggccaccca gcgcttctctg tcccgaraag tggatgtatt cagcccgtg cgcctctctg 480
agaaggtcct gctgcacctg ttgaagcatc ccagtgtcaa ccaggaagtg aggtttgacg 540
agagcaaccg gctggccaca caccactacc tgtaccagcg cancagccgg tggattactt 600
cattctcatc ctgcagggca gggttgaagt ggagatcggg aaagagggtc tgaagtttga 660
gaatgggggc ttacagtact atggagtgtc ggcctaact gtgccatcct cggttcacca 720
gtccccgggtg tctcgtctcc agcccatccg ccatgacctg cagcccgacc caggtgacgg 780
cacgcattca tctgcgtatt gtcccgacta caccgtgagg cgctctctga tctgcagctc 840
atcaaggtta cgcgactgca gtacctcaat gcactcctgg ctacccgagc ccagaacctg 900
ccacagtccc ctgagaacac cgacctgcag ttattccagg cagccagacc aggtcccttg 960
gtgagaagac caccacagcg gcagggtcca gccacagcag gcccggcgtc ccggtggaag 1020
gcagccctgg gcggaacca ggcgtttaaa cggstcacta ggcagcccca gatctgggga 1080
acaratgagc acgtggggag ctggagtggc ctgagcagaa gttttgtgcc cgctgcccc 1140
catccccctc aggccacgtt ttagatggcc cttgtagtgt cgggtcctgg gtgtcctcag 1200
aactagacat caatgcctgg atccttcagc cggccctgcc ctcccttagg agacaggagt 1260
caccagggca cagcctccag gcccgcccca ggaaggaatg aaaggaatgc catcatctct 1320
agttcccagg gcccagcctt ccccttctcc cccggggcag ggacagtgcg gcatattcag 1380

```

478

```

attcagacct ctttgggctg agccaccttg tgagtgcagt tactgccttt gtgtggccgt 1440
gacctctatt tgtttgcttt taatttgcca acctatcgct gctggcagca ctttttgagc 1500
aagccgagag caccattttt ggctgggggt tcagatcgat ggcttgtcc atgttgtcct 1560
ttctggcttc cctgatggtg tcatgtttca gcgcatgcgc cccagccttt cccatgtgcc 1620
aaaccagaag ctccactgcc cgtaggctgt ccctgtagcc ctgctccctc cctggaggct 1680
gctcttctga ttctgagagc tggcctagtgt gtgctgagggt cccctttctg cttctctgcc 1740
cacctgctga gttgccactc gcagtgttgt cagttcccggt gttctgagaa gaggtcatgc 1800
ctgggaggaa gggatcgta tgctgcacac aatcctctct ccgccgtgtg gccccagga 1860
gagtagctgc ctgttgcacc tgctccacac ctccccacag cctccctgca ggtgctgtgt 1920
ggccgtgatg tgcagagagc agtgagggtg ggttcatgaa ccagggtgat cctctttaa 1980
aaaaaaaaag tttttgttat atctctaraa catttcaagt cttttccttt ytttctgttc 2040
ctagctatgg ggttttagag aagtgggaac aggaaggcat ttgtcttttt cttctagttt 2100
actacatttt ccttccgtag ttcttcagct gtgtggaaac gggcatcaca aggacatagg 2160
atcatagatt gggtagggag ggaggaggat ttctggaact tttctcaaag gaatttggac 2220
ccttataaat gggactgaag gtcaaaaaca cagtgatatc cttgcttaga aattgtcctc 2280
aaggaataaa ctctgagagc aagcccgggt tggaaacaga tgctttaaaa tcctctctcc 2340
anaacagtgg tttnttggtt gtttatttga gatggagtct cactctgtca cccaagctgg 2400
a

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<210> 702

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (689)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (716)

<223> n equals a,t,g, or c

<400> 702

gcttggccta tgaaaagatt tagacaacca gacgataata gtgggaaatt tcaacactcc 60

479

```

actgacagtg ttagacagat cattgaggca gaaaactaac aaagaaatgc tggacttaaa 120
ctcagcactt aaccagttga aactaataga caaatacaga acactccacc caaaaggaat 180
gcttatacat tggttggtga aatgtaaatt agttcaggca ctgaggaaag cagtttggag 240
atcttctcaa taatttaaaa cagagctacc attccaccta gcaatcccat tattgattat 300
atatccaaag gaaactagat cattatacca aaatgcactc atatgttcat caccatgcaa 360
ttcacaaatg caaagacatg gaatcaagcg aggtgcccac caatgatgga ttggatgaag 420
aaaacatata tgctatggaa tactacacag ccctaaaaaa agaatgaaat caagttgttt 480
gcagcaacat aaatagagct gaaggccata gtcctaagta aattaatgca ggaacagaaa 540
accaaatact acatgtttct acttacaagt gggaactaaa cattgagcac acatgaacat 600
aaacatggga atgatttgac actgagcact actttgaggg gaagagagag ggangttgac 660
atgggttgaa aaaacctacc tattggggna cctatgtttg cntacctggg tncaan 716

```

<210> 703

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 703

```

gacccataat gcttgggacc aaagtatttt ggattttttc agatttttga atatttgcac 60
tatactttta tgagcatttc ctttgagcat catgttggtg ttctaaaagc ttcagatttt 120
ggagcatttc acatttttga ttttcagatt agggatgctc agcccgtata gggaaacttt 180
agaacattat agaaatgaac aaaaagaaaag caaacttgaa tgcagccata taggacatat 240
acttttggtg aagtttagagt aacagtggat ttacttttcc cttgaaatga caaacaaaaa 300
aaaaaataca gaaatatgaa gcagtgggtt ncaggcgnca gagtcaatga tgaaaaacaa 360
tggcctgagc ccaatgttgg ctccagcttg agaatttcta ggttgcctat a 411

```

<210> 704

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (698)

<223> n equals a,t,g, or c

480

<400> 704

```
ggacawtacc aggcaaatat tgcagaactg actcatgcaa acaaccgagt ggatcaaaat 60
gaagcagaag taaagaaact aagattacga gtggaagaac taaagcaggg actcaatcaa 120
aaagaagatg agcttgatga ttccctgaat cagatccgta agctccagag gtctctggat 180
gaagagaaaag aaagaaatga aaacttagag actgaactca ggcacttgca aaactggtaa 240
ttttttcaca aaatatgctg aattaaagat tagggcctta aagacatttc catatccttt 300
tcttaaatat cagtaaaatt gtttttatta actagaaata ttaatgaaaa aaacgtagac 360
aatacacaaa ttaatgggct tcttcacttc ttctaatttt tgcctaacag atactgcata 420
ttctcaaaaa gacaatttaa atgtcattta aaaacaactt taattctaag atgtgtaaat 480
attttgaaag tcaaaaaggg ctttcagaat actttttaca taaaatctga agagttataa 540
tatcggttag aaaaagtagt tgaanaccat acaagacgct gggtcattaa taagaaaacc 600
attgacttta gtataaagta ctgggttggt taaagattgg taaactttta tgtacgtggt 660
gtctatgtgg tggggatggc aggttgattt aacaaaantg aatccttcta gaggtgtacc 720
attac 725
```

<210> 705

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<400> 705

```
ggggcccaca cccaggtggg ggcccatggg gtggagacag agaggtggct ttaaaaaaca 60
cagctgtact aattcttcac tccatgggcc cacaccaggg tgggggagga ggaagccact 120
gcatctgttg gctcagggcc ccagcctgtg cgagcagggc gcctgggctg ttgtgtctcc 180
tgtctgtgcc gatctctatt aaaggactcc ctcttggtgg gcaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
angggnggcc gttttaaggg atccaagntt ac 332
```

<210> 706

<211> 726

<212> DNA

<213> Homo sapiens

<400> 706

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ggcagagggtg actgtcaaag cttgacctct gctttgattc cctttgttga gacaggttct 60
tataggacct ggattctcac cacatcctct gttctgttta gggaacacaa aggtaagctc 120
```

481

```

agctctgtgt ccaggagtag cttatagtag tctcccttaa ctgtgtctgt ttcaacttga 180
tccaagatca ggattagtag aagcttgtaa aaaaaaaaaa aaaagtttwt tttttacaaa 240
atagaccaga tgcactttga agttaaagt catgcttaac catctgcaat tcctaagggt 300
gagctcaatg catcacatgt agtagatgtt caagaaatgt ttgttaaagt ggcagttgta 360
aacagagaca gtgccgtgtt tatttcgttt tccagaaagg cacctgactc cttgctttgc 420
acataacagg tgctcaagaa atgttgaaga aaaaagcaaa ttgctttgaa tgcagtgtat 480
cctaaaacca gatttccagg ttgccccagt actctgtaca ggcctccatt ttggctgtta 540
acacagtgtg tcttttgtaa cattaaaatg ggtccacgtt tgcattctct ccgaaattat 600
aaactcctgg gagtgcaggg atgtgtctca tacattcttc cttgactttt ccacagcata 660
ccttagcaca gagttggata tgtagtagat gttcaatgga gaattactga attttcttaa 720
aaaaaa 726

```

<210> 707

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<400> 707

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gggttgggcc aatgggtcag gcatccagtc agctctggct aaggggtgaa ggagtcaggt 60
gttaccacac tggtggcagg ggccaccttg aagctgtgtt ctgtgccatg gaagaaggaa 120
gaggaggagg aagctaagct ggaagggaag gtcctggag tcagtagttg gaatctcaga 180
tggaagaaaa ccttaaaagt catctgggtc agtatcttcc aaagcatgtt ccatagaact 240
gttttccaga aatgggttcc tggtctggtg agtgggagyt csatgagagt ggcagttgtc 300
tattttgttc accgatgtat cttangtgac taaaacaatg gttgtcacat ggctggccct 360
tcatatttgn ttccagatgg aagactctct ttctagtggg ggaacattag ttttgcactg 420
tggtgggaca acctgatgta gtgaaaacaa gcctggggcaa tgaaatcaac agattggaat 480

```

482

tcaattccta attgggtcat tggatgactt tgtgaccttn ggcaaaatna nttacctttt 540
tgaatttgaa taa 553

<210> 708

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<400> 708

ggctgcaggc agcaacgcaa gtcaggctga acattcagtc tccagagaca gctgtgtgga 60
gcaaatcaga gttcatgccc aagtccccag gttggaatgg ctgtgccaaa atccattcaa 120
agggttttct ttttcattac taggtcagaa cattttgagt caccttggga gattcaggat 180
ggggagagca aatttgaaca aaagggtttt cttatatacct gagattgagg ggtaggggggt 240
gtncacactg natag 255

<210> 709

<211> 1075

<212> DNA

<213> Homo sapiens

<400> 709

ggccggcctc caggctgaag aaggaccgc cccggccttg acccgggccc cgccccctcca 60
gccggggcac cgagccccgg ccctagctgc tcgcccctac tcgccggcac tcgcccgggt 120
cgccccgttt cgcaccagc tcacgcgcca cagctatgtg tccccgagcc gcgcggggcgc 180
ccgcgacgct actcctcgcc ctgggcgcgg tgctgtggcc tcgggctggc gcctggggagc 240
ttacgatttt gcacaccaac gacgtgcaca gccggctgga gcagaccagc gaggactcca 300
gcaagtgcgt caacgccagc cgctgcatgg gtggcgtggc tcggctcttc accaagggttc 360
agcagatccg ccgcgccgaa cccaacgtgc tgctgctgga cgccggcgac cagtaccagg 420
gcactatctg gttcaccgtg tacaagggcg ccgaggtggc gcacttcatg aacgccctgc 480
gctacgatgc catggcactg ggaaatcatg aatttgataa tgggtgtggaa ggactgatcg 540
agccactcct caaagaggcc aaatttccaa ttctgagtg aaacattaaa gcaaagggggc 600
cactagcatc tcaaatatca ggactttatt tgccatataa agttcttctt gytgggtgatg 660
aarttggtggg aatcggttga tacacttyca aagaaacccc ttttctctca aatccaggga 720
caaatttagt gtttgaagat gaaatcactg cattacaacc tgaagtagat aagttaaaaa 780
ctctaaatgt gaacaaaatt attgcaactg gacattcggg ttttgaaatg gataaaactca 840
tcgctcagaa agtgaggggt gtggacgtcg tgggtgggagg acactccaac acatttcttt 900
acacaggtaa ttgtttcaaa aggattgcat gggccaggat gtccagataa gcaactgtgtc 960
tcttttgcct ttgtaactgt tattactctt tttactgcta tttaatatgt aatgtatatt 1020
atatgatcta taatatatat gtaatatata ttaaatggga acatgtgcaa atctt 1075

<210> 710

483

<211> 753
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature
 <222> (741)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature
 <222> (746)
 <223> n equals a,t,g, or c

<400> 710
 gaattcggca cgagctcgtg ccgaattcgg cagacgatac caggtgctgc agaagggatt 60
 ccatgagggtg cgcaaaggcc ctacttccgc tttcaccttg gagacggcga ctctctgcgt 120
 actgattgga acatccgcga aatgatacgc ctctctgcaa tgctattggt cgaaatgcat 180
 gtcaatctcc cagcgtcttt atccgtgttc cttgactctg ggcaacttaa aagccctaata 240
 acttttactt tcgccacaca aagaggttct tcttagtgga gggagagcag atgtagggca 300
 tcctaccgag aatttccgga accacgtgcg agatgatgcc agtcatgaac gtctccgcgc 360
 ttcttttcgc tttggaaata tccttaagta gaaaagaaat tttctgagct ttgcctaaaa 420
 ctagaatctg tgttgagggt tttcaaaatt aagtaacgcc agagacatac tgtgacgtga 480
 ggaaacgctc ttaaatgaaa ttttaagatc tatttgagaa acatgtacta aaaatgtact 540
 gacctcctat taatgccagg cgctatgctg aattctgggc cttcacattg tccttccatt 600
 attagaactg aagcccagat tatttgaaac aaaaaataaa cttcaataat ttattaaaaa 660
 aaaaaaaaaa aaamctcgag ggggggcccg gtaccaaat cgcccnaaag ggaggcggat 720
 taaaattccc tgggccggcg ntttanaaag gcg 753

<210> 711
 <211> 779
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (721)
 <223> n equals a,t,g, or c

<400> 711
 aaattaaccc tcactaaagg gaacaaaagc tgggagctcc accgcggtga cgaccgctct 60
 agaactagtg gatcccccg gctgcaggaa ttcggcacga ggaacagctc acactggctg 120
 gcactgctaa gcagggtgcg aggggagtc gagacccccg gatggagggg tgtggtggac 180
 ctacgttttg aggccgagag tcctctggcg ccmcccacag agctcctgga gagactgccc 240
 agctatgact ggcttcttca agggggcaga ggacagatat tcttcccacc tttggaggcc 300
 ccaggggaggc cccaggagca aaggctcctg ccctcgttcc tggaacacag gagatgccct 360

484

```

ccccagttgg actgctgagg gctttaccac taccgtggcc tcagtttctc gcctgcacgt 420
tgaggaggct ggctggcccc cgtragtcca caggcccttc ccagaagccc ccgcctctct 480
gttcggtccc ctgcagagtc cctgcgaatg acggaggagg tggcccggga aagccctcct 540
cagctttgtg gactstaagt gcctgctaca gccaakktgg actggagacc tcgtcatcca 600
ggagctgaag cggcagaccc tctgcaggta ccgtctggag accttttagtg aatccaggat 660
aagcgaagtg gacatttcaa ccctttacta aaccactctg tggaatgggc cgcaaagagg 720
ngcctcccc agggctcttg gacatcaagg tttcaaggct cttccgatgt ttttcagga 779

```

<210> 712

<211> 570

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 712

```

ccctcactaa gggaacaaaa gctggagctc caccgcggtg gcggccgctc tagaactagt 60
ggatcccccg ggctgcagga attcggcacg aggagccact gtgcccggcc tgccttggtt 120
attttcataa gatttctaga attaggttca ctgagttaag tgatataaac atttttgagg 180
cttttgctac atattttttag attgctctac aggagtggct tagtttatac acccctacca 240
ggtcgccatg tatgtttcta cacaatagcc ctgctcgcaa cagatagtat attttncnct 300
gttgcccagg ctggagtgcg gtggcgcaat ctttcttggc tcaactgcagc ttgaaatctc 360
aggctcacaa gtgatccttc cgcctcagcc tcccaagtaa ctgggactgc aggcattgcac 420
caccatgcct ggctaatttt tttttttttt tgtagagatg ggtttttgag accagccttg 480
gcaacatggc aaaactccgt ctttactaat aataccaaaa ttagctggga tagtggtatg 540
tgctgtaaa tccagctac ttgggaggct 570

```

<210> 713

<211> 877

<212> DNA

<213> Homo sapiens

<400> 713

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gccttttact gtagaccctc tccagagaaa ggagctcggg tcttccctga gccaaagggtgc 60
cagggtccca gaactccttt cactgcagac cctctccaga gactggggag agggctcttg 120
agaacctggt tcttgcttac tgttctccct ttgggcccct cttcccaaac gcaaacaatc 180
caggatccac tcagcgtcag gcccaatgga aatagtgaag cagtgatatt ccctcccctg 240
cctctccata gcctggtctt ttgcccctct ctttgcctct ctcttcccc atagccacct 300
caaatacctg cagcctgata tcttcacccc ttcacccaga ccttttctct cctagtggta 360
ttgcaaacct aaagtggaca aagacttaag gtaaacctgc tcctcatggg ggaatgcttc 420
caaagtctgg aaggaggact ttagggcaga gttcactaag gaggcttggt cttatagatc 480
agtgggcctg aaagaagttt ctctaggttc tggttggtg ctgtacgarg tgtaggtagt 540
aataatactc ttgtcagcca cagtgaagcc ccaagctagc cgggataggg gactgacctt 600

```

485

```

gtacaggcag catggagaaa ctaagacaga gtgtcctgcc caagtgatgg cactggggag 660
cagtcactca ggtttatttc caccagggcc caagaaaaaa agaatgagg caacctaaaa 720
ttccatcaag atagatacca atatccaagg tgcttgggtct tagcgggtgtg ggacccacgt 780
taaggctctt ggtgggaagg tgggaggtgt tttcagcatg agatagggtt caggctgtga 840
atcagagtct agagcctaag ataaaaaaaa atgtgcc 877

```

<210> 714

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (644)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<400> 714

```

gtgttggtgcc tgtaaaaaat tcagagccct gaactccatc ctggtataaa gcaaaaataa 60
aattttaatc cccttgacca tcccaatggc cccttctctt ggcaagggca ttccaaagtt 120
aaatggaaaa actagtttta gaccatgatg ggaagggggg gtggaactc cttccttttg 180
gaattactga tagaacagac tttttaagtc tgataagaaa catttacaat ctattctcaa 240
agtctgctac caggaggctt cacctgcatg ataaaacctt ggtctccaca actccttate 300
ttaaccaga cagtcctaag tttttagaca ataacctaac tgkttcaatc catgccaatc 360
aataagtctt taaatctgcc tatgacttgg aggccttcc ttycaagtag ttgkcctgcc 420
tttctggacc aaacgaatgt acatcctatg tgtatctgat agatgtctca tgtctcctaa 480
aatctgtaaa actaanctgt cccaaccac tttgggcaca tgttctarga ctyctgaagg 540

```

486

tgtgtacaag gccgtggnca cttatatgtg cttaaaaataa tctcttcaaa tntttaaaaa 600
 aaaaaaaaaa agggcggcgn tttaaaggat ccaacttacg tacnctgca ttcnaa 656

<210> 715
 <211> 1530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (25)
 <223> n equals a,t,g, or c

<400> 715
 ncctcactaa nggaacaaag ctgngctcc accgcggtgg cggccgctct agaactagtg 60
 gatcccccg gctgcaggaa ttcggcamga cgcggtccgg gtcgccccta gctgtttcct 120
 actcacccaa agccccgcac ccgccttttc tctctctcct ctggcaggat gaggcgtgca 180
 ggccctgggtg aaggagtacc tcctggcaac tatgggaact atggctatgc taatagtggg 240
 tatagtgcct gtgaagaaga aaatgagagg ctactgaaa gtctgagaag caaagtaact 300
 gctataaaat ctctttccat tgaaataggc catgaagtta aaaccagaa taaattatta 360
 gctgaaatgg attcacaatt tgattccaca actggatttc taggtaaaac tatgggcaaa 420
 ctgaagattt tatccagagg gagccaaaca aagctgctgt gctatatgat gctgttttct 480
 ttatttgtct tttttatcat ttattggatt attaaactga ggtgatgcat gtaatttgtg 540
 atttggaaat tgttccaact taatggcttg cagtaccact ttgataaaaa tcagcatcaa 600
 aacattccta gtgttcaaat actgtggcat tttccattga aaattgctga attttgctta 660
 ttttataaat cacattagtt aatacagtgg tctttgaata ctgtttctta atgactcatt 720
 tttagccccta ttttcagggg tagtgagagg gtgtggctcc actaatttcc agtttgtttt 780
 tctattgttt gccaaactgtc agattaaata gcattataat attttgttgt aatcataaat 840
 gcaggtttat gtcccatgta aggaaactta gtgggagagt aacagaatgc ctggagagcc 900
 tgactctgag ctcttgaagt agtcagccag tttgtggtta aatggtaatt gaattttcct 960
 aactgcatca actgtaatga tatactccct tctcctcctt tatttagtta aaattgtagg 1020
 ctgatttctt ttacctaca atcttcctaa taatttttga tgataatgac ccctcatttc 1080
 tttctgcca aagacctcat tctttaaata aaacttggtta ttttggcata tttctggtag 1140
 ggccattgac acatgtgtat cagtatagtt attatttcat attaaactta tgaattctct 1200
 tgacttggct tataatagtt ttatgatttt tactacatag gtagcacatt tatcatttgt 1260
 gacagaataa tgtgaagtta agtaattact gaactttaaa tggaaatagt atgcaagaaa 1320
 ctcaggcatt gaacttgaag ataagagtat tattgcttta atccagtgt tttgtttatg 1380
 gaaagaaaaa cacaaaggca gactgttgag taaaaaatat taaatattgt taaatattct 1440
 gtattttgga atttatccat ttataggctt caaaagtaaa tttttaaata aaatatatta 1500
 gtcgactgtg aaaaaaaaaa aaaaaaaaaa 1530

487

<210> 716
 <211> 742
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc feature
 <222> (709)
 <223> n equals a,t,g, or c

<400> 716
 tggctccaaa aggggaattgg gccttaagcc aagaatccgc cagaggggggt aatcaactct 60
 gttactttctc cccctgccag tcagaccggc cttcgggtgag aagggtgcgtc tagaactgag 120
 gcgtgcgggcc aatccgactg ttccgtttcg ctgcctcgtg ctacccttac agcctcgaac 180
 actgacattt aaaagggtaa cagctgggag gcaggggaagg ggcagccgca cactttcgga 240
 gtgcctcgcg gtcccgtggc cggtcggggc ctcctggctc acgttccagc ttgcgagact 300
 ttgggacaca tctttcctag tcagttgcgc tcgttcctat ggcaaaagag aacttcagct 360
 tcggtttttcc agctcccaaa cagttaagtg acttcctgca aacgctacag tcccagcaac 420
 cagccttcca atcaaaaagta agttgggtga tgtcactggc attggctcgg ccaatcacao 480
 gggcggttccg aaagcaagcg ctcgacactt gtaaacgcga agagctgtag tgaaactgga 540
 cacatctttg tatttttgtt tgctggtagt aaatttgagt tatggatgag aggacagggg 600
 tgatgaataa atgcagtgtg aatctataat taaaaaaacc ccattatgtc aggataagtc 660
 caagaataaaa cacaaatgag taagaaaaaa aaaaaaaaaa aaaaaaana aaaaaaaaaa 720
 aatgaaaaaa aaaaaaaaaa ag 742

<210> 717
 <211> 820
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (23)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (41)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (802)
 <223> n equals a,t,g, or c

<400> 717
 ctactaagg gaacaaagct ggngctccac cgcggtggcg nccgctctag aactagtgga 60
 tccccgggc tgcaggaatt cggcacgagc ccaatacagg catgaaccac tgcaccacc 120
 tacttagata tttcatgtgc tatagacatt agagagattt ttcatttttc catgacattt 180
 ttctctctcg caaatggctt agctacttgt gtttttccct tttggggcaa gacagactca 240
 ttaaatattc tgtacatttt ttctttatca aggagatata tcagtgttgt ctcatagaac 300

488

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tgccctggatt ccatttatgt tttttctgat tccatcctgt gtcccccttca tccttgactc 360
ctttgggtatt tcaactgaatt tcaaacattt gtcagagaag aaaaaagtga ggactcagga 420
aaaataaata aataaaaagaa cagccttttc ccttagtatt aacagaaatg tttctgtgtc 480
attaaccatc tttaatcaat gtgacatgtt gctctttggc tgaaattctt caacttgga 540
atgacacaga cccacagaag gtgttcaaac acaacctact ctgcaaacct tggtaaagga 600
accagtcagc tggccagatt tcctcactac ctgccatgca tacatgctgc gcatgttttc 660
ttcattcgta tgttagtaaa gttttgggta ttatatattt aacatgtgga agaaaacaag 720
acatgaaaag agtgggtgaca aatcaagaat aaacactggg tgtagtcagt tttgtttgtt 780
gaaaaaaaaa aaaaaaaaaa anctcggggg gggccccgga 820

```

<210> 718

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<400> 718

```

gcataacttaa aaagtacaaa agtccagttc tccaggtaca tgggcaattg tatttgttta 60
tagtttagat tcataacctt tactgaatgt cagaaacaca aaaacttatr raaataaaat 120
atatttgctc ttgagataca tataatttat tttaaagtcaa taatacattt ttagttaaag 180
gtgtatttat gatcagttta ttgtacttgt gctataattt tctttattat taaataaaat 240
tttgagacac ttttaaaata ataaaaacca aaaagtggta ttttaaaact agtttctaaa 300
tgatgattga ctaaagtngt gtgtgtgtat gcagacatac gtaaatacac acatacatat 360
aggctatgat gatgacaact atttacttca aattagatgc cttctgtatg tatattgacc 420
agaatacatt gctcaagtga tttttaaata tttgtataat ttt 463

```

<210> 719

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<400> 719

489

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tttactagtg tattatcttt tatttattat gtaaagcttc tttccttcct tttccccaat 60
catgatatat tagtgacaaa atattacaga accggactat cagtcactta aaaaaacagt 120
ataattctaa tgctagtaaa catgtaattt aannnagttc tggaggacag ttgtctttga 180
ttaaagcccc accaaaaccc atttaagtat ttaatgtaca tactattcat attattatgg 240
cctgtaaaca ctaatatctg agcaatcaaa ctgtttttatc taccattttt gatgaaattt 300
gaataaaagt taaaaacgtg taagcctttg aacaaatgta tgaaagcttt aaaagatcat 360
tagcactttt attttgttta caaataagct gccattttaa aaaataaaaac ctcactactt 420
gaacataaag ctcccaaaca atattgtatt aaaatgtact atattgacct aggaggatat 480
aggaaattat attcacctga ttaactggag cagtttcaca tagtggaat actttttgct 540

```

<210> 720

<211> 837

<212> DNA

<213> Homo sapiens

<400> 720

```

gcggccgcct gcggactgga gacccgggag gacggacgcg gacgcgggct gctcgtcttt 60
tacggccctt caacgccac cagacccac tctctttgga gaccccgggc gacggtgggg 120
ctcttgggca ttctgagact gcgcttggtg gagaccccg ggcgacggtg agctcttggg 180
cattctgaga ctgcgcttg tggagcccc tactggccag actggatttc tcagcctgcg 240
actcagcccc aggtacacg aaagaagcca gacctgggta attcttctag ttcttttttt 300
tttttttttt taattgcact gggaaacttc cccaatctcg gcccagttc tttctccaaa 360
ctaaggagtc atggcctttc gcccgctagt ccagtatgca cccgtaggcg cttcattttc 420
tctcctcttg tcagctttta ctgcctcctg aggccttcgt cttgttcaca ctgagtgtcc 480
agtccctcca aatccggcta cactctactg gcaaggagca cctgggcat gtttagaga 540
tcatccgagg actaaccaca aaagtattat aagagaaagc agaggccgag stgaagagat 600
rgacccgggt cacaccagg taaaggcagg atctaaactg aaactggtgt cagatctggt 660
tgcttgacac cctgatatac aggtgaagca acmctgggca ggatagagca gagtgaggtc 720
agagtgtgaa gatccagcct gatgcccaaa ctgacgccty ttcattctcc cskgctccat 780
ctgtaaactg cmcggttaat ccactctact tattgcatta tatagagaaa taaatga 837

```

<210> 721

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<400> 721

```

gttttctgct attaagttga gctgtttcaa gatagaatac cggattaggt tttgagttac 60
agtagtcctt cttatctgt ggggtgtaag acctacagt gatgcctgaa agagccaaga 120
gtattgaagc cttgtttttt cctatacata cgcaactgtg ataaagtta atttataaat 180
taggcacagt aagattaaca gcaataatga gaacatttat aactagtaag ttttgtgaat 240

```

490

```

gtggtctgaa aatactgtac tgtgggaaag tgaagccatg gtaagggagg attactgtat 300
atcttcattt tgggtcttaag ctttagaatt atgggtaact aagaagccgt ttgagatgg 360
tatattccat gactaaactt acctgggaat tgtattattt acggggaagg cagytatttt 420
aaaaatgctt gtttaaggaa gcagttgctg tatttgaatt aagataactt tcattagaga 480
ttattagtga aggttggcca tctggttggc tatgtgctta tagaattata gaagtaagct 540
atttgttgac aatttttagag tttaaattga caatcttggg tacctaccaa actttaaaat 600
agaagtcagg atttctgtta cccaaccatg ggagcyttgg ktgtcycata ttcggtaaga 660
taatctctgk taaatagtgg ggtattagaa caaatggact taagtaaaaa tcttcaaatt 720
atctttaaaa aaaaanan                                     738

```

<210> 722

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 722

```

acaagtagct gcagtagcgt acggaattac agggtagacc caagcgtacg taaaatttaa 60
aaacaaagga ctatttaaaa atacagttaa ttaacaaacg tgaactactt tctgttacat 120
taggtgttcc ctagtggttc ttaatttctt tttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaataatt gcaaatggtc aattcgattt taatttctca aaagatactc tggtatccag 300
aagattaaaa tgcctacatt gagtgcttaa aaaaaaaaaa acmactgtga tratktgagc 360
agaatggcca gtaagttaaag cttttttgga tcenggtaat ccagggtatc catttaccat 420
ggaaagggga ttccccaac tactggccca gaggggaagt tgggtttttt aaatttaagg 480
nggggaaatt ttanccctat aaaatt                                     506

```

<210> 723

<211> 540

<212> DNA

<213> Homo sapiens

491

<400> 723

```

taaggggatt ctcccagctg ctaaatttaa acagtaaata tcacattttg tcattaacac 60
agctataact tgccgtgggt ctcagattta ttttggacta ttttgatgcc aagtgaatat 120
aagagyttgt actgaaacca tttatttctt tctattttgc tatttgcaaa tgcttggtat 180
cttccctaca tgaagtggca gtaacctttt tcacatttaa gctacccttc tacttttgaa 240
gtgatttgca gttactcatc tgagacagca tcagtatttg actaaatcat tgtttcacaa 300
ctgaatagtc ttgttctttt agtagcaatg aaatcctaag ctcttgaggc cattcacctg 360
ccaacctgac catactgctt tcaaaagtct tttctcatca gtagaatcta ttttggtcac 420
ttctagtcaa tgaaaaatgt aaacttttag gagagaatgt ttctaggac tcaccactc 480
cattcaatgt tacatataaa atagtgtgat caatcacaat gtccatcttt aaacagttgg 540

```

<210> 724

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<400> 724

```

cccacgcgtc cggacccacg cgtccgccct gctctcctaa gataaccag aaaggagtgg 60
tcatatactt tggaggatag ccatatagat acttatcagt ggctgtgat tctttcctcc 120
agccccattc ttcctagatg attggaaaaa cacttaaggg agcattaaga ggctctgatt 180
gctactcagt gatatacgtc agtctgagag gacagggcct aggtaaaaaa gacttgtaac 240
gatgattcac aatgaccctt actgtcactt catgtaagta tagagggctc aggtatacca 300
ggctggcaac tgatggataa acggcattat gctaaaatac aattttggat ttcataattaa 360
agtatctcta gaataccag gaatacctta aaaggaagga atggcttcct gaacaaggnt 420
ggggaacctc ctccttaatt tgttttagt 448

```

<210> 725

<211> 1221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

492

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 725

```

tattnctagg atatacccn antaaagga caaaagctgg agtcaccgag gtggcgcccg 60
ctctagaact agtggatccc ccgggctgca ggaattggca cgagccgaaa gggacacaat 120
gtggcatgac taagtacttg ctctctgaga gcacagcggt tacatatTTa cctgtattta 180
agattttttgt aaaaagctac aaaaaactgc agtttgatca aatttgggta tatgcagtat 240
gctacccaca gcgtcatttt gaatcatcat gtgacgcttt caacaacggt cttagtTTac 300
ttatacctct ctcaaattct atttggtaca gtcagaatag ttattctcta agaggaaact 360
agtgtttgtt aaaaacaaaa ataaaaacaa aaccacacaa ggagaaccca attttgtttc 420
aacaattttt gatcaatgta tatgaagctc ttgataggac ttctttaagc atgacgggaa 480
aaccacacac gttccctaatt caggaaaaaa aaaaaaaaaa aaagtaagac acaacaaac 540
catttttttt ctcttttttt ggagttgggg gcccgaggag aagggacaag acttttaaaa 600
gacttgtagg ccaacttcaa gaattaatat ttatgtctct gttattgTTa gttttaagcc 660
ttaaggtaga aggcacatag aaataacatc tcatctttct gctgaccatt ttagtgaggt 720
tgttccaaag acattcaggt ctctacctcc agccctgcaa aaatattgga cctagcacag 780
aggaatcagg aaaattaat tcaaaaactc catttgattt ttcttttgct gtgtcttttt 840
gagactgtaa tatggtacac tgctctctaa gggacatcct cattttatct cacctttttg 900
ggggtgagag ctctagttca tttaactgta ctctgcacaa tagctaggat gactaagaga 960
acattgcttc aagaaactgg tggatttgga ttccaaaaat atgaaataag gaaaaaaatg 1020
tttttatttg tatgaattaa aagatccatg ttgaacattt gcaaataattt attaataaac 1080
agatgtggtg ataaacccaa aacaaatgac aggtscTTat ttccactaa acacagacac 1140
atgaaatgaa agtttagcta gccactatt tgttgtaa at tgaaaacgaa gtgtgataaa 1200
ataaatatgt agaaatcaaa a

```

<210> 726

<211> 220

<212> DNA

<213> Homo sapiens

<400> 726

```

tgtctgtatt tatttcttct ccaaggaaac agcctacatt ttccatgtgt ccatgtttct 60
gaggccgtgg gtgacagtgg gaattgcact aatgggggcc caccaggcct gggggctggt 120
cttagcgcta gaccttgaac aaggcacttc acctgctggt ctccaatttt ctctctgtw 180
aaatgaaaga kttgaactaa gtgatctcaa aagtttccaa

```

<210> 727

<211> 894

<212> DNA

<213> Homo sapiens

<400> 727

```

aattcggcac gagaggaaat ggcgtcgtgg cattgagggg catccctcct agaacctcca 60
ggaaaagctc gcggaagacg aggttctgag gagagagagg ctccaagcag tctgggaagt 120
gtagtccagt tggcttagca gtagtttctg tgggggggag ccgagggtcc gggaaggggc 180
taggccggct tgaaaagaga ttatgactgt accttttaac tytgtagctg gaacacaaga 240
agtgtttgtt taatgaatga cgtacacatt taagatctgt ttggacgcgg aggataatcc 300
tgtgaattgc taatagttca ctgggttttg cccttagtgt tgacttcagt atgctgagac 360

```

493

```

ggaaaccaac acgcctagag ctaaagcttg atgacattga agagtttgag aacattcgaa 420
aggacctgga gacccgtaag aaacagaagg aagatgtgga agttgttaga ggcagtgatg 480
gagaaggagc cattgggctt agcagtgatc ccaagagccg ggaacaaatg atcaatgatc 540
ggattgggta taaaccccaa cccaagccca ataatcggtc atctcaattt ggaagtcttg 600
aatttttagag atggattatc ttgcatgcc aagcgctgga atggaataaa atgatggcag 660
aagtacaaac cagattttaga gaattgagtg cttgcagtca agcagaatgt acctcctgca 720
gagacaaatc ttctgcatga gattactgat gcttcacttg cactctaagc tggaatccaa 780
actctgggtt gtctcttgaa aatttgactc tataaaactg atctgatttt ctgtttttta 840
aaataaatat attttttgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa      894

```

<210> 728

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (753)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 728

```

gtgctcttgc tccagaaaga ctcaactgctc acagctgccc agctgaaagc caaggggggag 60
ctgagctttg aacaggacca gctggtggct gggggccagc tgggcgagct gcacaacggg 120
acacagtatc gtgaggtccg ccagttctgc tggggctctg gccaccacct tgtgcgcttc 180
tacttcctca ctctgtttta ctccgagtac cttgaggatg ttctggaaga gctgacatat 240
ggacctgccc cggacctggt gatcatcaac tectgcctct gggatctctc cagatatggt 300
cgctgctcaa tggagagcta ccgggagaa cttggagcggg tgtttgtgcg catggaccaa 360
gtattgccag actcctgect gctggtgtgg aacatggcga tgccccctcg ggaacgtatc 420
actggggggt tctcctgcc agagctccag cccctggcag gctccccgcg gcgggatgtg 480
gttgaaggga acttctacag tgctacgctg gccggggacc actgctttga tgccttagac 540
ctccactttc acttccggca tgcagtacag caccgtcatc gggatggtgt cactggggac 600
cagcatgcac accgccacct ctacacctg cttctgacct atgtggctga cgctgggggc 660
gtggagctgc ccaagcgtgg ctatccccct ggtgagccct accataagtg ggggggtagt 720
gatgcaactg ggccctcaga ggacagggtc canaaacaga atgggacaca gccactcaag 780
ggaagtanag gtcctttgaa ggactcctgt ggcttctgca tgcaccttnc tnaaccctg 840
aga      843

```

494

<210> 729
 <211> 752
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (696)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (708)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (728)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (746)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (751)
 <223> n equals a,t,g, or c

<400> 729
 caatgaacag acattttata tcactgtaga tacaaaatat taaagcagtg gtttcagcca 60
 attaaatcaa tctgtgagag tggagccag gcctgccatt tttgttaaaa gctccccagg 120
 tagttcta atgagccaaa gttgagaagc aaaagtattg taaattattt ctctcaaatt 180
 tagagttatt acagtttata tcaaattcaa aatgcttaat ttgcttttgt gataaagagc 240
 aatagaaggt ggtgagattt ctaaaaatta ggcctccagg tatgcatttc aaatgtagac 300
 ttcttaaatg atcgggatca gmttgtgctg cctargtagt ctgttttttt ttttaatgtc 360
 atttacataa tcattttcca ttctctaagc acaaataag ttaacatctg agttagcttt 420
 tgaaagacac ctttttgttg ggtarggact actgttatac atcataaact garggttatg 480
 acatttctct atacttactc caagatgcag aaactgcttt tcacatagtt ttactcatat 540
 tttaacaatg gattaaggga ggctaaggta gtttaatttc atatatgtac attttttacc 600
 taaaaatatc tgattaaagg tattatttaa taataattaa aatccgtggg cacagttttg 660
 aaccttcttt aacttttcag tttaagctgg gcccantgcc ttccaaantg ctgggattca 720
 ggcattgancc actggttctg gccggnctac nt 752

<210> 730
 <211> 1493
 <212> DNA
 <213> Homo sapiens

495

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (971)
<223> n equals a,t,g, or c

<400> 730
ccctccctcc ctccctcact gcttccctcc ctctctctcc ctctcccttt cttttctaca 60
ttgaaatctg ttcttacata atagagaaca gggctattga ataaagaccc aatcctacca 120
gatcttttagt tctaaagggc aacttgactg tgagtaggag ggccccaag aaaggragga 180
aagtccacac ccagctaacc acacaacagg gcttcattat ggaaatattt taacaaaagt 240
acatgttatt accaaccaaa gagatgcatg tgcaatagaa gccttcctta aaaacaggct 300
aaataacctc attttatgca gcagtttaat ctgagaacag agggaaaggt gtgcagtggg 360
tccagagggg ccttatattc tatttttagt ctagatattt tttgtttata aattcccaag 420
gaattgttaa cactttgggtg acacctaata gattcttttt gaaattccaa ggtgcttcag 480
ttctttgccc aagtgaactg tgccttttat tgcatttctg ttcgtctctt ggtggctctt 540
ctgacttttt ggagaatacc catcttggtg gaggcagact taagttgtta tgctgtgcca 600
cacaattttac tgagacaatc atatcttcct aagcatttaa ggaaagttga aaaaaataga 660
attagctata aaatatgtat ggcacatctt gtttaatttt gcatgtaact tctcttttgt 720
acattgatga ggtttttagtg acattgtcat ccaacacttt acctttattg ttcagggaat 780
gccttcgtga ttttttgtac tggttttatt attcagacta tggcctggat ttgagtatat 840
tgttattacc acctggtttt ttaattattc atcccagtaa acttatattt tgtgaagcat 900
ttgtttctca gattaagaca ctgtagaac ctaaagtagt agctgatggg tatctgtgaa 960
ttttttnttt nttttttttt ttacttgaag tagattgtct gaataggcat cctcatctat 1020
atttacccaa aacctcgctt actgtcatgt gcactacaaa ttgcaatttg gaaacctact 1080
gtattgaaat tctgtcagtt tatggttctt gaagactgat gtcctttccc aaacactggg 1140
tactgcagca gcatttttaa tgtgtaagtg aagaaaaaag gccactaagg ccaaagattt 1200
tttaagaatc attgtacaaa tcattatgtt aaactatcta agctttgctg taatactgtt 1260
ttctcttcaa tatgtgatgg tacaggaagg atgttaaagtg aaggggtggg attgcaggag 1320
agcattttta atggcagaag taaaaagtta taatatttat aattttgatg ggtttaagtt 1380
tatttttgta gggaagattt ttctccccta aaatagtttc tagaatggca aaattgtttc 1440
cattattaaa aattgaagtt attagttaaa aaaaaaaaaa aaaaraaaaa aaa 1493

<210> 731
<211> 1057
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1056)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1057)
<223> n equals a,t,g, or c

496

<400> 731

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gaaattatta aaaatttcaa ggtggtgggc atagagcatt aaaccaaata tgaggccatt 60
cccaacttgt tttccgaggg gaaaatggta atacttgtgt ggcacccggg gttaaacagc 120
agagggtcca tgtggccaga ggcagagatt agtatcctgg cactccagtg acccactggg 180
tgactcactg atgccacagc acccgctagg aagctctgct gaaccttagt atttggtcct 240
aaattttatg actccatgga gttcccgtag tccatggcta gttaggaaga aaggaggtgg 300
gataagggtc aggcccaggt gaccctaag aaccaggaga tgggtaaaag ttttttttta 360
tattctgctt ttctgatctg tgagtacctg tttgtctcca ggccaaacct ttgggcttaa 420
atatcttttt cctagacagg tttttgctag tgttgaattt tcttcttcct ctggcctcct 480
tctgtgcccc tttccccaag cccaagactg ctttaacttc aaagcaaatt ctagatagac 540
actgtattta ttggtatggg agtgggctct atgggggtgg ctgcacccat ctgggactct 600
tttcctataa tcctgcacca aatgagtcag gaggcagggt gcacagcatt agtttcaatg 660
tggttatgca tcataagctt aacatcagaa tgaaaatgaa actcgatttt gatgtttctt 720
taaaaccctt cccctgtcca atccactcgc cgccccacc ttgaatagct aaagtctctt 780
atgaaacaga gaagagttgt tgacgtctaa ctccctccat taaattaata agtactgacc 840
tcctaataat taagtgttta ctatctattg ctgtaaagtt ttgtatatatt tgtaaacctt 900
tttcccaaaa tagtagatgt ctaaaatcat tgtacatctg attcttttat attccattgt 960
tcagcacaaa gtgtgggttt tatttagaat aaaaaagaa atttgaaatg aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaann 1057

```

<210> 732

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 732

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tnattatgag ctgtgtaacc ttggatacag tttcctcatc tataaagttg tgggtgggaga 60
atggctgaga acagtgatct ctacgtcttc cagctgtaaa gatgttaatt atgattttta 120
ctctcaagat caggccacat aaggaaacag ggaattccag ggggtgggaca cagctggggg 180
agtccagacc agggcagggg aaggagactc acaagccaaa cagagctgct ttgggggaaag 240
ttcttatcag ctggtgctgc ttctgagcc atatgccat tectcaagct gtaccctttt 300
cttggtctat taggatgagt tcctcctagg cccttgtag gagtggctat tggattctaa 360
gcggttgggg catgagggag gatattttta agggaagtat agctgatttt aaaagaacct 420
atacattcaa gaacaaataa aaaacagcac ttttctttac caaaaaaaaa aaaaaaaaaa 479

```

<210> 733

<211> 1519

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

497

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (27)
 <223> n equals a,t,g, or c

<400> 733
 gntccccgaa tctccctgna cctcgnggaa cccaacccca acctgggaac ctccccaaaa 60
 gtgctgggga ttaaccaggc gtggagccca accacgcccc ggcctctttt ttttttaagc 120
 tgccaatctt tttggaagga atattcttac ctctactttg tcaccttcta ctggctcctt 180
 aactaaaatc tgccatttgg ctctctgggt aacagtcctt tcctgtaaag tctaaaatct 240
 taattctaaa tccacagttt aattcacaag ctagtacttg actttttttc tgtatttgac 300
 atttttgaca acccctactt taaagattta ttccttgac ttcttacatt ttgctcactc 360
 ctgaaccacc cccacacttt tggcctcttc atttattcct taaatgttat tcctcagacc 420
 tccatttttt ttttctctct taatcacaac accacttctc acgcttgggt aattttaatt 480
 cagcagttcc taaatcctta tctttagcca gactcctcaa tccatctgcc tgttgcaact 540
 ttcttgggtg tcccagagac acctgtgtgt gtcttaaaac attcattctc tgcaaaacct 600
 actctaattgc ctgtgtccct tacttttggt aatttttagaa ccattatatt ctaagttttc 660
 taggctcatt cctctcctcc accttcccct atcatttagt gtctaagttt tactgatttt 720
 atctccacct ctctgataca tcaactcttc atcttcattg ctattattaa taaataccta 780
 cagtactaac ctgcctccta tacctagctg gtctcctctc tgttgctcaa tgttaccaca 840
 gcaggctttc tagaagcact ctgacagtgt tactccctaa tatccttcag tgacttcagg 900
 aactttcagg agaaagccaa actcctctgt ttggtgtaca aggtcttctg atgtgtttcc 960
 tccaccgaat gttctgggtg aacagactta cacttcttca gaagccacat ttggccaggc 1020
 ctcccgccct ggtaaatgct gtactctttg catcaagtgt gctagtcac cttccccact 1080
 tggaaaatcc ctatgcatct tgcaggcctg acataagcat ttcctctgtg aaacctcctt 1140
 tgctccactc aaggagagtc atctaacttc cactttcgtg tcaccactgt aattacaacc 1200
 tacctctatt gtatgtcact taaatcgtag tgtattgttt tatttttcaa aagtctttac 1260
 tagaatgtga gctccttaag ggcaggaaaa ggaacctttt tattttttgc atctccatag 1320
 catagttttt ggcatatgaa tgtttaataa atgtttgttg aataaattga ttttaagtg 1380
 acatctttat tatattagag gtccctaccta tattccaaat actttcactc ccttcacttt 1440
 acagcaaggg tcagtagagt cccaaggatt tgtagacttt aggggggtcaa taaagctgaa 1500
 attgtattca aaaaaaaaaa 1519

<210> 734
 <211> 1449
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (200)

498

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1443)

<223> n equals a,t,g, or c

<400> 734

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ggccttttct ctttcttaaa aaaaaaaagt ttgcattagt tactctaagt gagacattga 60
atggattaat ttatttactt tttaattcaa attctccttt tctttagccc attattccta 120
tgtttacaca aaatattcga gaaggattta gatcacttgg aggaacaagg ttatttaggt 180
ggctttatga aaaattccgn tatccatttg ctccaatgta tggagggttt ccagtgaagt 240
tacggacctt ttagggcgac cccattccgt atgaccaca gataacagcg gaagaattag 300
ctgaaaagac gargaatgct gttcaagctt tgattgataa gcaccaaga ataccaggaa 360
acattatgag tgctttgtta gaacgttttc attgataaca aagggtcaac tagaagatga 420
ttaggtacat ttatattaaa tgtttgtatc taagggtactg tcttctgaat tttgtagggtc 480
ctataaattag tatttttttaa aaaaatcatg ttaataagca tctttcacag aattcgtttc 540
tttaaaatag tcaattttgt ttttgcaatt gtgtcaaata ctaacaaatt acacacctag 600
taattcagaa aaagatgtct tatttgtaaa ttcctaaciaa tttatgctaa acatatagat 660
tcttaagttt attaataaca gcagtttagg ttaaacaaac attcctggat aatgcgttaa 720
atttctgtat ctgtcgccct gagctgattt tgaaagatgg tataagctag ggggttagtat 780
agttgtttta gttagaaaaa acatgctgtt gtctgcccct cattcccttc atgaccttgg 840
gcaagtcacg taatgttttt gtgcctcaac aattcacttt ttaaaaacat gatcgatatga 900
tgaatgatat tattttgtta tttatattta ctgtgattga taactgttga accaaaataa 960
taaaataatt aatttaaaca atgtcaaaat ccttttagcag ttatgtatat attttctcca 1020
ttgtgtgttt aaattatgtc atgtccagtt gccaaagcaca atgaaaaaga tgtattattt 1080
tttaaattga ataaaaaatt aggaaaaata aaatttctaa ttattatttt tagtatgata 1140
ttttkaacaa gagtctatag gcaacaata taggggtgtgc tgtgcattgt cagccctata 1200
ctgtggtcct aataatgccg gcttaaaaat cactgttgtg ctctgcattt cgtgtgttag 1260
aagctgattc taggctgagg aaagcaagag ttctctactt ttgctcaata ttgaggctta 1320
cccagtttga ctctacagct agtgaagygg tttattgctt caataaaaat atacttgaat 1380
gatgaattta tttatgtttt gttttgtttt tatttagaga tgggggtttg ncaagttggc 1440
cangcctgg 1449

```

<210> 735

<211> 930

<212> DNA

<213> Homo sapiens

<400> 735

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gcggcacgag ctctctctct ctctctctct ccagaagtgg acttccctgt cccccaggc 60
agaggcagga gtgtggagtc tgtgcagagc cagccccagg agcccgtgag tgtgccccag 120
acactgacta gcacgctgga gcacattgtg ggccagctgg atgtcctcac tcagacagtc 180
tccattcttg agcagcgggt gacactgaca gaagacaagc tgaagcagtg tctggagaac 240
cagcagctaa tcatgcagag agcaacacca tgatcagggg agcagggaatc aggagctcgg 300
tggatttgca ggtggcaggc cagggatttg tacrrtgagg cttgggtaaa taaaggggac 360

```

499

```

tgaactctgt gggaatcaca tccatactgg agccctggat ttttgcagtt ctgccctcca 420
ccttgctatc tgcaccagga ggctctccac ctggcagcca gaggtcccca gtgggcccggg 480
ctcacacaca aatgatgctt cagacccgaa tgagaggacc acattttgct taatgtaaag 540
gagccacttg aaaatgtctg ctccctcggg gtcctgagat tgtggctccc cctctggagg 600
aggtggctcc acgatgcctt gattttcact catcatttgg acatgtgact ggcttttcct 660
acctctgcca tgggtgtagaa attgattgca cattgattgg atgagccggg gggttttctct 720
aaatctgact aaaggcccaa agtgggccc tctgagtcag gtttgttgag aacaagccct 780
ctcaagtggg tgggtggcttt tcagtggccc tgatttctgt tccacacgtg ttcactggag 840
ccaggtgact tcctccttgc gtgagtgagg gcacaggaat ctcaaaatta aacctgactt 900
cattgcaaaa aaaaaaaaaa aaaaaaatct
930

```

<210> 736

<211> 914

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (894)

<223> n equals a,t,g, or c

<400> 736

```

ggcacgagct gagggcggcg atgctggagg ctgccgactt cgcggctcgc aagcaccggc 60
agcagcggcg gaaggacccc gaggggaccc cctacatcaa ccaccccatc ggtgtggcac 120
ggatcctgac ccacgaggcg ggaatcactg acattgtggt gttacaggcg gccctgctcc 180
atgacacggg ggaggacaca gacaccaccc tggatgaggt ggagctacac tttggggcac 240
aagtgcggcg cctggtggag gaggtaacag atgacaagac tctgcccagg ctggagagaa 300
agaggctgca ggtggagcaa gcgcccaca gtagcccggt ggccaaactg gtgaagctgg 360
cagacaagct gtacaatctg agggacctga atcgctgcac ccagaggga tggtcagaac 420
atcgagtcca ggaatacttc gagtgggcag cgcaggtggt gaaggggctt cagggaaaca 480
accggcaact ggaagaggct ctaaagcatc tgttcaagca gcgggggctg acaatctgat 540
cagtgtctga agctatccag aggcacaact ccagcctcgt tcaggccgga caggattcat 600
acgccatctt ttctgtgtct cctgagctcc ctccatcctt cccagatatt agaggccaaa 660
aaaagacttg cattttttct cagtctgaag gtctcctgct aactaagctg agccccgcgt 720
ggtgggaatc agatgtaccc atccatttct gatgcactca ccgcctctcc ccaagtcttg 780
ggtctgtttg ctattttgca tgggtgggac tctggccctc cagggaactg agattattta 840
agtactagtt cctaacacgt tctggaaaat aaaaataact ctgggttaag gtnaaaaaa 900
aaaaaaaaaa aaac
914

```

<210> 737

<211> 1227

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 737

```

gcaggaataa ttttaacta tttttgctgt aatgtgnagc tttaatgtct cttttcagka 60

```

500

```

yggaccata aaagtattcc tatatcttgt gaataaagat cattcttgtg gactagtacg 120
tggatgcatt cataggcttt gggaagcagt ggtgtgcgta tgtgtgtcta tatcaatatt 180
ttatgtttat aactctgcgt attaatgtta tatagaaaaa aataatgtct ttcttttagtg 240
tttgggggac tcaatggtaa tatgaccatt gcagtgtaat ctgactgctc actctagaga 300
acacttctgt tatacacaat gcacatacaa acatacaccc ctaaagcgta gctaactgct 360
cccactagat aattgctgct aaaaacaaaa caaaacaaaa caatacaaaa caaaaaaac 420
cctaagtaat ggaggaagaa atagcattct tttaaaaggg gcttttctga agagtaaaat 480
gtaaatacag gacatgtggg gaggggtggg cgcctgcaa aatgtcctga agatggacaa 540
atagcctttt aaattctact ttttaaccat ctttaccgtg tgtgcctatt tgtattgcag 600
atgtgaacta ctatttttgg aggttgatat cagtatgttt tgaaactgaa ttattacata 660
aaatcagagt aaacctcttc tccatcctcc tttccacac tattcttgcc aaatatttct 720
actgaaaccc agtttcagca aggcaaaatg atgggactct caaacctccc tctcatctt 780
cccttcccc ctgtcttatg cctggcctgg ccttttttgt tgttgttggc ttttcataag 840
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gtagtcattg tataattaga aacaccaaat gctgaatcct atcactgtgt tcttgggggc 1140
caggccttgg atttggttgt catttaaact ccttgaagat tatatgtaat tataatgagc 1200
agaaggcaaa taaagttttt gaacaaa 1227

```

<210> 738

<211> 775

<212> DNA

<213> Homo sapiens

<400> 738

```

ggatcttcat gttttcacat cttagatgc aatttgtag cacaggctgt cattccaaga 60
cacacaaatg tcattaaggc aaccgcttaa aggagtgtga tattttattg aggtagacag 120
gacaatagat aaatatttaa tctgttacat gtttgcctctg tgtggagcca ggggtggggc 180
tgcacaactc tctggctgct atgtgtcttc ctggaaaccc tgtcaaaggc cttaccgcct 240
gcctggagaa acacagtgcc tgcccttggc aaatatatgt tgggtgtatct gaaaaacagc 300
tcctggaagc tttttctcat tcaggcttta ggggttacc cactcttccct tatgtgtgta 360
atattggaga atgtacactc tcaactgaact ggggatgttt gacttaaaat gatggacaat 420
aagatagtga gcagtaagtg tgctctagge taggctacga gaggccatga gctcctcatc 480
tcttctctgt tctgagctct ctgatccact gcacttgggg caggggggtgc attctctgtg 540
cctctcctga gtctacttcc tgcatcattg gttctcccag ctcacttcca taatgtcctc 600
ctaggctgca ttggaattgt gtgttgtcta gaccatggc caagactgtc attgcctgtg 660
agggagacca agctcaccac caagggttt tgccagattg ctttcattta cagaatttgc 720
ccattcatgt gtctttgtgt ttatggatta aatggcttcc tgaccagcaa aaaaa 775

```

<210> 739

<211> 1437

<212> DNA

<213> Homo sapiens

<400> 739

```

cggtgtaccg tgtcttaaag cccctgaaag awaacgctaa taamgcaaaa agcttactgc 60
tcactacat acctcagata gggccacag aatggctcaga aaccctccmt aacctgaaga 120
atatggccca gttttctgtt ttattacaa gacattaaag tagcatggct gccaggaga 180
aaagaggaca ttctaattcc agtcattttg ggaattcctg ctttaacttga aaaaaatayg 240

```

501

```

ggawagacat gcagctttca kgcccttgcc tatcaaagag tatgttgtaa gaaagacaag 300
acattgtgtg tattagagac tcctgaatga tttagacaac ttcaaaatac agaagaaaag 360
caaatagacta gtaaacaatgt gggaaaaaat attacatttt aagggggaaa aaaaacccca 420
ccattctctt ctccccctat taaatttgca acaataaagg gtggagggtg atctctactt 480
tcctatactg ccaaagaatg tgaggaagaa atgggactct ttggttattt attgatgcca 540
ctgtaaattg gtacagtatt tctggagggc aatttggtaa aatgcatcaa aagacttaaa 600
aatacggacg tactttgtgc tgggaactct acatctagca atttctcttt aaaaccatat 660
cagagatgca tacaaagaat tatatataaa gaagggtgtt taataatgat agttataata 720
ataaataatt gaaacaatct gaatcccttg caattggagg taaattatgt cttagttata 780
attagattgt gaatcagcca actgaaaaatc ctttttgcac atttcaatgt cctaaaaaga 840
cacggttgct ctatatatga rgtgaaaaaa ggatatggta gcattttata gtactagttt 900
tgcttttaaa tgctatgtaa atatacaaaa aaactagaaa gaaatatata taaccytgtt 960
attgtatttg ggggaggggaw actgggataa tttttatttt ctttgaatcy ttctgtgtct 1020
tcmcatTTTT ctacagtga tttaatcaaa tagtaaagtt gttgtaaaaa taaaagtggg 1080
tttagaaaag tccagttctt gaaaacactg tttctggtaa tgaagcagaa ttttaagttg 1140
taataattaag gtgaatgtca ttttaaggag ttacatcttt attctgctaa agaagaggat 1200
cattgatattc tgtacagtca gaacagtact tgggtttgca acagctttct gagaaaagct 1260
aggtgtttta tagtttaact gaaagttaa ctatttaaaa gactaaatgc acattttatg 1320
gtatctgata ttttaaaaag taatgtttga ttctcctttt tatgagttaa attattttat 1380
acgagtttgt aatttttgc ttttaataaa gtgsaagctt gcttttttaa aaaaaaa 1437

```

<210> 740

<211> 1389

<212> DNA

<213> Homo sapiens

<400> 740

```

gggacggcgg gcacagcgca gcactccccg ctctgttgcc cgggtatccc agcgcggacc 60
cacgcgatac gctgacgccc cgacgcgat cgggccgagc caagactcaa cgatgactct 120
gaataatgtc accatgcgcc agggcactgt gggcatgcag ccacagcagc agcgtggag 180
catcccagct gatggcaggc atctgatggt ccagaaagag cccaccagt acagccaccg 240
caaccgccat tctgtacccc ctgaggacca ctgccgccga agctggctct ctgactccac 300
agactcagtc atctcctctg agtcaggga cactactac cgagtgggtg tcatagggga 360
gcaggggggt ggcaagtcca ctctggccaa catctttgca ggtgtgcatg acagcatgga 420
cagcgactgc raggtgctgg gagaagatac atatgaacga accctgatgg ttgatgggga 480
aagtgaacg attatactcc tggatatgtg ggaaaataag ggggaaaatg aatggctcca 540
tgaccactgc atgcaggtcg gggacgcata cctgattgtc tactcaatca cagaccgagc 600
gagcttcgag aaggcatctg agctgcgaat ccagctccgc agggcccggc agacagagga 660
cattcccata attttggttg gcaacaaaag tgacttagtg cgggtgccgag aagtgtctgt 720
atcagaaggg agagcctgtg cagtgggtgt tgactgcaag ttcatcgaga cctctgcagc 780
tgtccagcac aacgtgaagg agctgtttga gggcattgtg cgacaggtgc gccttcggcg 840
ggacagcaag gagaagaatg aacggcggct ggcctaccag aaaaggaagg agagcatgcc 900
caggaaagcc aggcgttctt ggggcaagat cgtggccaaa aacaacaaga atatggcctt 960
caagctcaag tccaaatcct gccatgacct ctctgtactc taggaacca gggtcacca 1020
gatgtccctt tgatggccgt tgttgaaggc cattgggacc aataatctat attagattga 1080
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ggcaacatga tgcattggga atgaaagatt tttgtaaaaa gtcagtattt atttccagga 1200
aaagcctgac cttgctattt gaacacccaa gactctttag aggatgtgtt tgggtgttcac 1260
atgkgtttyp tytatttttg atagtagrga agtaaagctt acaagaatg cctagaacaa 1320
gaacttttca tcattaaaaa tttttccag tgttytgaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaa 1389

```

502

<210> 741
<211> 852
<212> DNA
<213> Homo sapiens

<400> 741
gtttcttgcg ggggataaaa aagggtcttg gagattcatg cgatgtgtcc aatcggagac 60
aaaagcagtt tctctccaac tccctctggg aaggtgacct ggccagagcc aagaaacact 120
ttcagaaaaa caaatgtgaa ggggagagac aggggccgcc cttggctcct gtccctgctg 180
ctcctctagg cctcactcaa caaccaagcg cctggaggac gggacagatg gacagacagc 240
caccctgaga acccctctgg gaaaatctat tcctgccacc actgggcaaa cagaagaatt 300
tttctgtctt tggagagtat tttagaaact ccaatgaaag acactgtttc tcctgttggc 360
tcacagggct gaaaggggct tttgtcctcc tgggtcaggg agaacgcggg gaccccagaa 420
aggtcagcct tcctgaggat gggcaacccc caggtctgca gctccaggta catatcacgc 480
gcacagcctg gcagcctggc cctcctggtg cccactcccg ccagcccctg cctcaggagc 540
tgatactgca gtgactgccg tcagctccga ctgccgctga gaagggttga tcctgcatct 600
gggtttgttt acagcaattc ctggactcgg gggatattttg gtcacagggt ggtttttggt 660
taggggggtt gtttgttggg ttgttttttg ttttttggtt ttttttaatg acaatgaagt 720
gacactttga catttcctac cttttgagga cttgatcctt ctccaggaag aaggtgcttt 780
ctgcttactg acttaggcaa tacaccaagg gcgagatttt aaaaaaaaaa aaaaaaaaaa 840
aaagaaaaaa aa 852

<210> 742
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<400> 742
ggcacgagaa gccctggaca catggatttg agtcctaact ctgtctctta gatttttcta 60
tgcagtttta ggtcttatgg ccagagagat ttgaagatat ttaatatctc taagctgcaa 120
tctttatctg caaactgggg ttagtaatcc aatcaacctt attgcggata ttgtaagaaa 180
aaatgagatg acaagtgtaa aaactcagaa ctatacttac aaggtaagca gacaaaatat 240
gctattgttg tgattgtttt ctctctgaat aaataaactc tgctgaagaa tttattagat 300
atgtttctcg aatcgagaat ncagttccag ctctcatttc tggcactgac atattggcca 360
aatatgattc tnatacaata atcagctgct ttgctgtgag ccttggagtg gtcagctggt 420
gatggmctgc ttgtattcct attcag 446

<210> 743
<211> 892
<212> DNA

503

<213> Homo sapiens

<400> 743

```

aattcctaaa attgcaaata atactcaact atgaagaatt ttattagtta cagtgcctatt 60
aaagaatatg tgctcctttt tattatatta tcagataact atgtttaatt gtacattttt 120
taaatcctga atatatgtg ttttgtaac aaatgtaatc agtggaaccc ttcttacgtt 180
ttgattatta gcagttaaat acattttgta tacatgaagc ttagattaat tcccatcatc 240
atcatctcct gtttttatat gtgtccctat gtgtttcatg cattcctctt tgatcagatt 300
ggaatttgag ttaaaattta gctttgtaca ttacgtgtga gagttacaga ctagcaagtc 360
taattacttt gccttacctt gagtgatgac cacaggggtca gataacacat taaacattta 420
gttacactgg attactcttc caaagctgac ctcttgctaa tgttcagagg taactgcaat 480
ccggaaagaa ataatatcac tgcagaaaga atgtgactct aaaaataaac caggacctcc 540
ctgtgatttg ccttgccctgc agatgaccag ttgactcttg tgctgtcagc cctgggggtg 600
ctaaggaagc tgcttcaggg agttgggggt tagttgcccg ctctcaacag gaatgcctcc 660
tctactttgt cagagatgct gaacaaatat caaactctgt ggcagtcag ctggcctcct 720
aagaataacc tgtgagtcag agttgatgca cattattttt gtttttattt tattttttta 780
aggaactgct ccaaggggtc attatagaac aggagtgtgt acggaggact taggtcccca 840
catagagtgg ccgttctgta atgaaccctt ggagcagttc cttaaaaaaa aa 892

```

<210> 744

<211> 700

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<220>

<221> misc feature

504

<222> (694)

<223> n equals a,t,g, or c

<400> 744

```

tgcaggtagc ggtccggaat tcccgggtcg acccagcgt ccgatttcaa aagctaatac 60
tataatacat ttccataaaa atgatgtttt aagggtaaaa gaaaagaagt aagctatttt 120
cctagataaa gctgcccagt ctaacaagac ataaaacatg tttttcggcc taggnttntt 180
atcaatttag agtggtaatg ctgggtcaga tgttttgatt aattaatctt tgattaataa 240
gtataagana gctaattatt agaagagaag gttgttttat aaacatcatc tttcaaaatt 300
cgagatttat ggggaataaaa ttaggagaag gtggttaaac ctcttcaaca ataaattgct 360
ctttggggac attttatgca cagaactgtg caccctctc agaacagcag gtctttaatg 420
gcccagtga tgagaagggc cccatcaagg cagcaggaat gggccactct cccacacccc 480
atggggcagg ccactgccac tcctgctgcc ctgcatcccc aggtttatgg ctgcatggta 540
gaagtcactt ctgtaagaaa ttcacctttc taaaataaag tatgctcttt tttctgagac 600
atctatagaa taacttggtg cagagtgttt taaaaactga tttggatttt ttttatcctt 660
taaccctgtg gaaaggatgg aanggatatt angnggaaga 700

```

<210> 745

<211> 442

<212> DNA

<213> Homo sapiens

<400> 745

```

agcgagaggg agaccaggg ggtgaaact tgaactctgg ttctttttaa attaatattg 60
gttggtgttg ggggagggcg gagtgctgtg gagaagaacc gaccacccc gcgcaagggg 120
aagcctcctg tctccctttt ccccgctcc gagraggcgg aaaccacag tgttacctga 180
cttatgaaac ttgaaaccgc ctctggagcc gccattctgc agagtatttg gaaaaagaaa 240
aaagggttta tgcttacgtc tctgggtcg gggggattat gtcacgagcg ttcaaactgc 300
tggaatctc aaactgtac tgtctttatt tttgtatatt gtatttatat ataaaaagaa 360
acgtctacgt atgcatgcta aattattatt tagcgtctcc catcgccac gatggaatgt 420
aaaataaatt ggttttgtac tg 442

```

<210> 746

<211> 1329

<212> DNA

<213> Homo sapiens

<400> 746

```

tttactccag gtagatttcc acaatatgca aagtgggtgg ggggtcaaga cagatgacac 60
cagcacttta aactctttgt gtgggtatgc gtgggtgtat gtttggaag aaaaacaaag 120
gtgcagacta tcttcctttt tttctcttc agcctccatc cctggcctcc tcccctcaca 180
cacactggac ttggtacaaa atgtcgggtg ggtcctagat gaagcattgg ggtgggggag 240
ggagagggag ctttgtgtta agtgctact ggaaatgcac tgtgggggtt tttcctgtat 300
gggaaaccat ttatgccaa cttttcccca ttcccatat ttatctcatc tggttagctg 360
cctctgcttc cagctttgtg taattctctt tgccagctgc acaaagctga ttttttccaa 420
agtctaaaga ctgagctcac ctggctagat tgttgtgtgt tttgttgat tttttcataa 480
tgtaatgccg tatttattgt ttttaaaatg aaaggaatac taataagtct taaaagttcc 540
ttcatgcata agattttttt ccagttactg ggcttaactg gtgtacatta attagatgtc 600
catactgtat tttgtttgca ttaagtaatt ttctttttga cttagtatcc ggcacacaaa 660
gtgggttagt actacagtat ttgcgttact ttaagtacta agtatgcagg tttcctggta 720
ccattgagtt gctgctatta aagctcacac acgaaatggc taaaagttac aagtgtgcaa 780

```

505

```

attatgactg cgtgagcctt agaaaataaa atgtataaag ggcaacacat gasctgtcaa 840
acagtgttag gagtgtgttt atatgtacag agttgtgcat agcaatcgtt ttatttaagt 900
tgatatgtag tctactcaca tttycattat ttagcaattt tgtacaaaaa tagcmattaa 960
tttgtaaaca ctgccagaat acttttctagc tgctttgttaa ttttttaaga gtgttatttt 1020
gtttttgttt ttctgttctt tgttgtggct cttgttttca tttttgttgt acgtgtagat 1080
ctgtaaataa aattgcagta tttaaagctt aagctttcag gaaaaagaaa ataagaattc 1140
agtgtgtgca tgacaactcg tgtgtatgag aaggagggat atgaaggag atggcttgca 1200
gagtaagtcg ggtggcaatt gtcagggtgt gatcttacca cttcaaattg gtgtaatttg 1260
aataaatttt gtatggtaaa ggatcaataa aatgattttt ttaagaaaa aaaaaaaaaa 1320
aaaaaaaaag                                     1329

```

<210> 747

<211> 239

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<400> 747

```

gagaacttct gaagtgggtg atcaagtaca attctaataa gggaccaggg taagtgactt 60
ggcaacaatt tccttgggaa gctgccaaaa tcttatcttc agtctcaaaa ctcttatctg 120
cagtcatagc tagtctagaa aggtaagtct tgatttctta gctaaatgag taaagtttgt 180
attctacaaa gaaaatagaa tacnaataaa aataataatg gagaagcaaa cttaaattc 239

```

<210> 748

<211> 1589

<212> DNA

<213> Homo sapiens

<400> 748

```

gcttttagaag aacattttcta gggaataata caagaagatt taggaatcat tgaagttata 60
aatcttttga atgagcaaac tcagaatggg gctacttgaa gactctggat ctgctgactt 120
cagaagacat tttgtcaacy tgagtcctt caccattact gtggtcttac ttctcagtgc 180
ctgttttgtc accagttctc ttggaggaac agacaaggag ctgaggctag tggatggtga 240
aaacaagtgt agcgggagag tggaagtga agtccaggag gagtggggaa cgggtgtgta 300
taatggctgg agcatggaag cggctctctgt gatttgtaac cagctgggat gtccaactgc 360
tatcaaagcc cctggatggg ctaattccag tgcaggttct ggacgcattt ggatggatca 420
tgtttcttgt cgtgggaatg agtcagctct ttgggattgc aaacatgatg gatggggaaa 480
gcatagtaac tgtaccact gtgaaccag aaatgccaca ccatggaagc cacacactct 540
gctgtctcct tctgtcctca ttctgtcct tctcacagtc agtccctctt ggctcttctt 600
agagtccctt tcattccctc atttccactt cctgccgctg tactgtcacc tgtggcctgg 660
atttgactc ttggtccaac acctcaact ycaacacctc tgtctttctg ccccatccac 720
tagacaaaag ctgactctgg aaaacattag gcactcagaa tcaagggttc tggggtcaga 780
tggataattg ccatcatcct caccaagttg ccactggact ttcttgcccc taaatccact 840
gggcatttca ttgctacctt tcttgacttc ttgattgttt ttgtgatact gacacatccc 900
ccctttcaga acaccctctg cccttgatt ctgtgcacag gaagctagtt gctcccctga 960
atacactctt tcttcttgt aatacagcct ctgattttga gccaagaat aaagactaca 1020
gttctcagac tccttcgcaa ataaattttg tgactaaact ctagtcaaca gtaagggtcat 1080

```

506

```

gtagcagctc ytggaatct cctttaaaaa gagagcttgt ttataacctat tgksatctct 1140
gttcttctgt gcccctkctt ccattttgct gcctggaaag cagatgtgat ggctgkaatt 1200
ccagtcacca ttttggacca tgaggacaac accctagaga tgtggagtgg ctaaaagaag 1260
cctgtgttcc tgagaactta gaggaccagg acctctattc caggcttgga cacctacatt 1320
tagactatta tatgaggaag caatcaactt ctcacttgtt tcaaccactt tcacttgcag 1380
tcaaacctga attgtaagt aaattgcttt cctgatagca aacctgttgg attttctcca 1440
gaatccctgg gccactttta gcagtcagat tcgtctaatc ctcttttaaa gatggtggca 1500
gtgaaactgg tacatgggac ctgactgggc tttgtttgca actttctgat aatttataat 1560
tatttcaaaa taaaaaaatt ttaaaaaata 1589

```

<210> 749

<211> 633

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (627)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (632)

<223> n equals a,t,g, or c

<400> 749

```

attcatacta gcatgctcat gaataaggca atgtgttaag cactggcata caaatgcagc 60
taaagggtgct gaaggaaggc agtgggggtgg tgcaggcaca cagcaggag ctcttccccg 120
tgacacgtta gtcattctct ccacagagca scacccaasw gccttccttc agcaccttta 180
gctgcatttg tatgccagt cttaacacat tgccttattc atactagcat gctcatgacc 240
aacacataca cgtcatagaa gaaaatagt gtgcttcttt ctgatctcta gtggagatct 300
ctttgactgc tgtagtacta aagtgtactt aatgttacta agtttaatgc ctggccattt 360
tccatttata tatatttttt aagaggctag agtgctttta gcctttttta aaaactccat 420
ttatattaca tttgtaacca tgatacttta atcagaagct tagccttgaa attgtgaact 480
cttggaatg ttattagtga agttcgcaac taaactaaac ctgtaaaatt atgatgattg 540
tattcaaaaag attaatgaaa aataaacatt tctgtcccc tgaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaanaaa ana 633

```

<210> 750

<211> 967

<212> DNA

<213> Homo sapiens

<400> 750

```

gggaggctct gaggaccaat tggaagaccc agcactaagt ggtaaggctt gggagtgtga 60
aatggggagg aggggctggg atcttgggtg gtggggccag gccctgagtc cctctctgct 120
tgcttttcag agcctgggga ggaacctcag crcccttccc cctctgagcc tggcacatag 180
gcacccagcc tgcattctccc aggaggaagt ggaggggaca tcgctgttcc ccagaaaccc 240
actctatcct caccctgttt tgtgctcttc ccctcgctg ctagggctgc ggcttctgac 300
ttctagaaga ctaaggctgg tctgtgtttg cttgtttgcc cacctttggc tgatacccag 360
agaacctggg cacttgctgc ctgatgccca ccctgccag tcattcctcc attcaccag 420

```

507

```

cgggaggtgg gatgtgagac agcccacatt ggaaaatcca gaaaaccggg aacagggatt 480
tgcccttcac aattctactc cccagatcct cteccctgga cacaggagac ccacagggca 540
ggaccctaag atctggggaa aggaggtcct gagaaccttg aggtaccctt agatcctttt 600
ctacccactt tcctatggag gattccaagt caccacttct ctcaccggct tctaccaggg 660
tccaggacta aggcgttttt ctccatagcc tcaacatttt gggaatcttc ccttaatcac 720
ccttgctcct cctgggtgcc tggaagatgg actggcagag acctctttgt tgcgttttgt 780
gctttgatgc caggaatgcc gcctagttta tgtccccggg ggggcacaca gcggggggcg 840
ccaggttttc cttgtccccc agctgctctg cccctttccc cttcttccct gactccaggc 900
ctgaaccctt cccgtgctgt aataaatctt tgtaaataaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaa                                         967

```

<210> 751

<211> 695

<212> DNA

<213> Homo sapiens

<400> 751

```

attcggcaga gstgagtggg taggaggtgc agcagtcttt gggtagcagc ctactcaaga 60
aaagaatgat aattacatac tcacaatctt tagccatcaa gcacttattt cctcaactcc 120
ccctccccct ggcttattgc caaacctaa atcctgtatc ctatttactt catgcctgtt 180
ggttactaag tagttccatt tagagtacac attcattgtt gccttgaact tgctctgctg 240
ttatggcacc tgaaaactag atgttcttgg atgggggtct tccttcatca aagcttcttc 300
ccatttgtac ttcagttcta ggacaaggca agargaaagc aagaagctgt aaatcccat 360
cctctgggtc tcaatttcac cctcagttca aggagctgag taggcagagg caaaggctat 420
actcaacaca cgtgcaattg aaagcaggcg agggcaaac accggcagagg aaaggaaagg 480
ggtgtgtgta ggtatggatt tatgggtagg tgggtcggta ggtaggtga agaggagggt 540
ctaagcagta taacctaaag ctcttttctc tttcttctgc ttcaaacacc ttaagaactg 600
ctcagggtag actggagaca aaagcaacag ctcagaagtg ctaaactctg aagagcagcc 660
aaagcatggg caacaaagtg agaccccatc tctac                                         695

```

<210> 752

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 752

```

aagcggccgt gaaagtgttg tgctatcgac aacggtatgc aggccgcctt ttttacgcgc 60
ccagctgacg ggtagccagg tgcaaccatt aagcatcgca atctgttgct gtgccagttc 120
agcagaactg swtgtcagaa tgggcacttc gtcagcaccg atcaaacctg cctcatgctg 180
ttgaaaatct ggccccact caagtgcgag ataattaaga tctcccttta gttttgaagg 240
ggcactggta taaagcgcta aagtgaata tcccagcaac tgactactwa aattcgtcca 300
ttttgggcgc ttcagtggtg aataaggaag atcaagctgg cgttcatgca gctgttttac 360
cagagactgn ccgtttgggg caatttcggg                                         390

```

<210> 753

<211> 508

508

<212> DNA

<213> Homo sapiens

<400> 753

```

gcctgactgg  ttcacccctcc  ccggaacttc  ctagacgcgg  tacgtgccag  atgggtgttac  60
ctggagctta  aaaagctgca  cgcaagtgtt  aaacttctga  caatggccaa  gaacaaatta  120
agagggccga  agtccaggaa  tgtatttcac  atagccagcc  aaaaaaactt  taaggctaaa  180
aacaaagcaa  aaccagttac  cactaatctt  aagaagataa  acattatgaa  tgaggaaaaa  240
gttaacagag  taaataaagc  ttttgtaaat  gtacaaaagg  aacttgcaaa  tttcgcaaaa  300
agcatttcac  ttgaacctct  gcagaaagaa  ctgattcctc  agcagcgtca  tgaaagcaaa  360
ccagttaatg  ttgatgaagc  tacaagatta  atggctctgt  tgtaatatat  tgggtgatgca  420
tctaattctc  cacaaagacc  aataaattga  atgttttata  caatttttaa  atcttggtta  480
tgtacgggct  tgggcacttt  ttaaaacc

```

<210> 754

<211> 1162

<212> DNA

<213> Homo sapiens

<400> 754

```

tagttctaga  tcgcgagcgg  ccgccctttt  tttttttttt  tttttttttt  ttttttaaag  60
agagtgtgta  tgtacttttt  ctctctataa  gggccagggt  gttggtcaaa  ttcaccatcg  120
attaatttat  atcttctgtt  gtgatttttt  tcaactatat  aacaagtgcc  aactaattgt  180
ccatgggaca  atctactttt  cactcaattt  tatcgttttg  agtagggaaa  ggttcattta  240
ttttcattac  ctggcattaa  gttaaagaat  tcattatttt  gcatacattt  gagtcattct  300
gtgacctata  aagtgttttt  gtaactatct  aattctaatg  gttgcaaagc  aaagcacatg  360
actgtaaaac  caagcaaggc  gttttagtaa  ctttttccct  gaatacttgg  tagtttccat  420
tgatactatt  ccaaaacaaa  ttctgctgtt  ttaggttgta  tatttacttt  gcttttggtc  480
taagaaaaag  ccaaggacta  aatcaacttg  tttttgtgtt  tcagtaatca  gtttaaaatc  540
taagattttt  ttttaaatta  gactatttaa  tgaagtgcc  tgtaattgta  gcttgctagt  600
gtttaatgtt  taatagactg  gttctgtagg  tgttttaacc  atttaacact  ctctgccatc  660
cctggagaaa  gtggttctac  tcttactgaa  cacattctct  ctgacaaaat  caccagctgc  720
tttatttttc  tatttattac  agttaaacag  ttgatgaggt  ctgaatcttg  accaaaactg  780
ctcagctgag  atgtttttca  caatagacac  tgtacaaagt  gtgcgtgcaa  aaggacacgg  840
ttggtagtat  tttttcatta  atgtgaacat  tgactaaaaa  aaagcagtc  tgccttttaa  900
atcttggtgc  agctcagaag  ggaggtgctt  aagaacctta  actactatgt  cagataacaa  960
aatatttttt  tccatttttg  agattgggta  ctgctcacac  atgatgtata  gggctaaata  1020
tatgcttggt  tcttgccacc  tgtgtacttc  ccctctctcc  ctccctttcc  tccccctgta  1080
ggcaataaat  ggccattttg  caactgcaaa  aaaaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  1140
aaaaaaaaaa  aaaaaaaaaa  aa

```

<210> 755

<211> 1087

<212> DNA

<213> Homo sapiens

<400> 755

```

gccccacgcgt  ccggcgtctt  gwggctgcgg  cctgcccctc  agcctcctcc  gcgcgggttac  60
ccctgtaccc  gccgccatcc  gtccctggcg  tccggatgag  tcaatgaggg  gcagggcccg  120
aggagtggtc  ttcccaagaa  ccctgggtgg  cctcccaagg  ccggtgctgt  gtacctcttc  180
cccgacaaaa  ggggaaactg  aggccccgag  gggagtggga  agagccggct  ggacgtcagg  240

```

509

```

cccagccgct ggtgcagtgg tccgtccctt ctgccggggt gggccctcg ggtttcgct 300
gtcctcggga aagagactgg cgggcctcgt gggctgtgcg gctatcctgg agacagatga 360
cagctctccc twggatggct ttgctgggtc cgcaccagcc agcgccccca tttttcctgc 420
agcaccctga tctgcactcc ctgagggggt cccactgtcc gcggtgtgag gatgtccctg 480
gatagtcacac tgtgtgcaga ggcatgggag ttgtcatgtt gggaacatgc tagacctcag 540
tateccttgag ggatgctgcc ttgggtcttg aaactgttag aggaaacccc aagaggtgca 600
gscactgagc ctctcaggac aatgacctgg ggtcccagct cccctggagg ggccctcctca 660
tgattgtttg ggggttgatc acagaccaag agtgacgagt gatgtcacc tgtgactcat 720
ggccggacct tcttgccctt attgtctcag cacaacatta ttcgactttt ccctcagcgt 780
gggtgggcag aggaaaagcc ctgtggctct ggggacttgg gatccagagt tgaagaccct 840
tcagctggct ctgccctgcc agtgccacag agtgccatgg cccaggaaga caggttttct 900
tccatctagg ccaggccatc cagtggccat cctccgtgtc ctcccgcctc ctcttggtgt 960
gacttctgaa aaccaagaat ttgttcctgt tgactttttc tgtgctatgg accattgtcc 1020
tctcaccacac tcaataaatc ttgaaacatg maaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaattac 1087

```

<210> 756

<211> 803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<400> 756

```

gacgggtcat gagcgcggtt ttactgctgg cctcctctgg gttcctctc ccaactgccag 60
gagtgcaggc gctgctctgc cagtttgagg cagttcagca tgtgtggaag gtgtccgacc 120
tgccccggca atggacccct aagaacacca gctgcgacag cggcttgagg tgccaggaca 180
cgttgatgct cattgagagc ggaccccaag tgagcctggg gctctccaag ggetgcacgg 240
aggccaagga ccaggagccc cgcgtcactg agcaccggat gggccccggc ctctccctga 300
tctcctacac ctctgtgtgc cgccaggagg acttctgcaa caacctcgtt aactccctcc 360
cgctttgggc cccacagccc ccagcagacc caggatcctt gaggtgcccc gtctgcttgt 420
ctatggaagg ctgtctggag gggacaacag aagagatctg cccaagggg accacacact 480
gttatgatgg cctcctcagg ctgaggggag gaggcattct ctccaatctg agagtccagg 540
gatgcatgcc ccagccaggt tgcaacctgc tcaatgggac acaggaaatt gggcccggtg 600
gtatgactga gaactgcaat aggaaagatt ttctgacctg tcatcggggg accaccatta 660
tgacacacgg aaacttggtc caagaaccca ctgattggac cacatcgaat taccgagatg 720
tgcgargtg ggcaggtgtg tcakgaracg ctgctgtctc tagatgttag gantcacatc 780
aaccttggtg gggacaaaag gct 803

```

<210> 757

<211> 796

<212> DNA

<213> Homo sapiens

<400> 757

```

ggcacgaggg aagaagaaaa aaatggatgt tggaaagttg twgcatgtct ctctggatag 60
ctcagaagta tcagttgtgg ttattscctc acttggtctt tgtaagcatg aaaaagccag 120
ggacaatttc aactaccatt tctgaccatc atcaaccaca aatttttaggc aatttgtag 180

```

510

```

aatttttttt aaatgttctt aatagttggt gggtagctgg gagatttcag agaaagtaat 240
cacctttgta tatattatta atgtgtttat aatagaaatt aaattctttg ggatgtacag 300
gtaagataag ctatgtgaag catagctggt atccaagtcg tgtgcctttg aaatacttgg 360
aatttgaaga acaggacatg cagcttatgt tataattaat ttgcgagcaa tatatggcat 420
gatatgattt tcttatctaa attctgagtg cattgaaagt ttaaagcaaa ggacaaaagc 480
ttcctttggt catggcccat attccagtat atttttctga aactgccaat attttctgat 540
cggtagctttc atttttctag ttggttacca aatactgtta ttggtattat ttctatataa 600
aaggctttta gaagactata gtataatttt cttaagaaaa aagacatgat tataagctaa 660
aatatgcctt cggttttgtg tgctacaaat tgaggagat tgagaatatt ttaaatcaag 720
ggcmgacatt gagtaaaagc ttatgacttt ggatggattt gaaacaygat taaatgacag 780
agtaataaaa aaaaaa 796

```

<210> 758

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<400> 758

```

aattcggcag aggggttagaa tcagtctaga aatcatgtca aattcttatac acttgctatc 60
aaactagctg gttcaattcc ttattagtgta tctgcaataa gataaaatct tgtgctacaa 120
cataaagcaa ctatctcaat aaacacagtt taattcagct aactttattt ttttttgtag 180
caagawtttt tcagtgaat aagtgggtgtg ttgatttata gtttggtgca agctccctat 240
cttcttgtag acctataacc attgtgccag ngggtaagaa atgggtccca gccccttcac 300
ccgtggcact gnccncaca gggaaccct ttggc 335

```

<210> 759

<211> 1019

<212> DNA

<213> Homo sapiens

<400> 759

```

gtgggtgagct gagatgacgc cattgcactc cagcctaggc aataagagca aaactctgcc 60
tcaaaaaaaaa aaaaaaaaaa aagtctaaag gcttaaagtt tgatgcagct acctgaaatg 120
atcttttatt tattttattat tagaaaaagc aaaggcatat gggcattgct tattagtttg 180
aattctagag actagatctt aaagtagtgg ttctcaaagt gttgtgccg caccaacatc 240
agaatggcct gcaaacttgt agcaaactct ggggaggagg ccagcattct gtattttaac 300

```


511

```

aagcttccct caggagattm tgatgcctgc taaatTTTgg gaaccactgt tttaaaggaa 360
actTTTTTTT tctTTaataag catttaattg tatgasatga ttgctTTTtac atgtgatttc 420
cttgcaaatg ttctgaagtt gaggcacac caaacaagtc tgaacaattc tttatgtgat 480
ttatTTTTaa agtagacctt ttgaagagat ctatgaatgg gatataaagc aattttcagt 540
gttacagggtt ttcttcttct tctcaaaact gtttgctgta agtaactgca atcagtactt 600
actactttcc atttgcttat gagtttcttg acaaatcaag gtgtagaaaa ccagttatta 660
agtgattttg tactttcctg gtagttgtca ctaaaataat ttttgTggca tataaatata 720
tttaataaaa tgcaaaaatt atcttcctgt ctagtagaaa aaattacatg agtaaagtga 780
agcttctgtc tttgttactg taccagggtga caacagmtga gtgtccctcc atggacagtc 840
actattggcc ttttgagtga gacagttctt taggataaaa rcctgtcatc ccattgcagg 900
attcatttag cctttctggc ccttaccas tgatgctagt cattgtgacc accccacctc 960
ccccaataa aagtgtgcc aactaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1019

```

<210> 760

<211> 1504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1441)

<223> n equals a,t,g, or c

<400> 760

```

ggtcgccgga aactccgggc ggcgaggct ggaccagagt cgagttccct cctcctgcac 60
caaagggagc cgccaccgct tgggtgtctaa accgcctcgg ttccagaaag ctgagtctga 120
tctggattac attcaatata ggctggaata tgaaatcaag actaatcatc ctgattcagc 180
aagtggagctg tcaccactga ctaaagaaga gaaaactgcg gcagagcaat tcaaatttca 240
catgccagat ttatgaagaa atggacttgg aaaggaaatt ctaacagaga agagcttaat 300
tccggagaaa ttttaggaaga tgtcttgTta acccttgatg tctagagatt gggggctggT 360
gaaggggggt tggcttcaat gactggataa tgatatcttt catgagagag attataagaa 420
gaagggcgaga taatatatga ataaagtTca gccaaaagga tcaaatgaga ataaaacgat 480
ttaaatatat gtacacacgc atgcacacac acacttagtc ttgtaatttc aggccagaaa 540
ttctcaacac tattttgcat ctgttttctt tttctaagtc atgataatat agatgttctg 600
gtctatcata aaagaatgtt tatgtacatt tcagtcattc ggtatgtggc tttgtaaatt 660
aaagtatagg caaaacattt gtgttatata tgatatataa tttcattttg taaatgttga 720
ttgcacatgt ggTcacatta ttgttgagac tgcttttatg tgacctgtag tctcccacag 780
aacctaaagt aataagctgg cttttctgtg atagccacgt ttgcgtattt ctttccctat 840
ttcccttgcc tgctaattgtt gaacagcatg aacttgcttt ctgatgctgt ttttagactgt 900
ccctgttgta tctcaataat atctttgttt tccttcagcc tttattacta taattgttca 960
ttctacatga aagctaggaa actgraatta gaagagcact tatctgctac ttgccagttt 1020
tgcgTgagtg tgttatatgt atgtgtcaat ttccctttaa aataactatt tattttaaaa 1080
taactattgg caataaggaa actgttcaaa gtagaggcag atcttgatag aaagatgtta 1140
atcacagggt tgtttataat agcaatatac atacacattt ggctagtact aggtgaatag 1200
gaaaataaat catgctgtat gtatacaata agaggtcaag ttgccataa attattactg 1260
ttaatgttct ggggraatgct graactatgc taartggggg agaggggraag caggtattgc 1320

```

512

```

artttttgtar tgaagattgg gcttttgagat catatctgag atgtaagtag cagctttttaa 1380
atnccttagct atgaccctgt gcagatcact taacttttga gtggtcagga tgttgggaagg 1440
ncaagacagg aaagtgggtt taataccagg gtcccagtat ttagtaagcc tccaataagt 1500
gata 1504

```

<210> 761

<211> 813

<212> DNA

<213> Homo sapiens

<400> 761

```

gggccgaggc aggggggatca cctgagggtca ggagtctcta ctaaaaatac aaaaattaga 60
cagggtgtggt ggtgggcgcc actcaggagg ctgaggcagg agaatcactt gaaccggga 120
ggcagaggtt gcagtgagcc agatcatgct gctgcactcc agcccgcccg ctcaccgtgt 180
gtgttgctgg gtgctggggc tgtgacttay cccctctect ttagccttgc cataagtga 240
gtatcctatg aggctgagat tgggaaaggt tacatgcagg taagccagtg gacgtggccg 300
atgcttcagg ctcttccag ccagggtccag cagtgttacc atctgcttct cctgggagga 360
caaaccaggc acccccacca tgaaggggct gcaggcacca tgaactatgt taacaacccc 420
agtctgtact acagaaaggg ctgcagccac atgagaattc agtccacaca agcccatgg 480
ccgtgttccc cacttcagcc acagggtca gggagcccca tctggcgcta aggggaactg 540
ctggggtgtg ggtgacacct ggcctttggc gttctgcctt ggggaggttt ctggttttgt 600
tacggggtgg aagaatagga cctgggggtc tcggatgcaa cctgcagacc ccgtgggtca 660
cccaacccca ggttctgcct ccagaccag aacgggcatg gcctggctct tggcaccgag 720
gtgcctgctc tgtaaatatc aagggtattc aactttaata ataaagcaga acttgaaaac 780
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 813

```

<210> 762

<211> 2013

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1995)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2004)

<223> n equals a,t,g, or c

<400> 762

```

gcggccgctc caacatcaga atctgagctc cgggtgacgc ggctgcggta gctgcggata 60
caagccttcc gcgggtcctg cctggcgacc ccgacctcct cctgctgtct ctccgctccg 120
ccaccccgaa ccgcceaagg tctgtcctt ttcctcctgt cctttgccag cggtgggccg 180
gaccgggccg agccgggccg cccggggcga gtctttaacc atggcgctcc tcttcaagaa 240

```

513

```

gaaaaccgtg gatgatgtaa taaaggaaca gaatcgagag ttacgaggta cacagagggc 300
tataatcaga gatcgagcag ctttagagaa acaagaaaaa cagctggaat tagaaattaa 360
gaaaatggcc aagattggta ataaggaagc ttgcaaagtt ttagccaaac aacttggtgca 420
tctacggaaa cagaagacga gaacttttgc tgtaagttca aaagttactt ctatgtctac 480
acaaacaaaa gtgatgaatt cccaaatgaa gatggctgga gcaatgtcta ccacagcaaa 540
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tatagtaaga aaacaatata ttttggccat ctaaaaatga gaattataat tatatgaatt 1800
ataatttaaa ctgtttaatt ttgtttaatg tgtatattga atcttccaaa ttgaagccat 1860
tattctcaat taagtactac aactatgaca atgcttgacc tacatttcta aaataaaaaat 1920
tcacattttt tgataaataa actacagttt taccagaaaa aaaaaaaaaa aaaaancccg 1980
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```

<210> 763

<211> 620

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<400> 763

```

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tccctcctcc acctgtctga cctggcattc ctatttcggg agaccagaag tggggggaag 120
agaagggatg actgkttctt tgktttcacc attcctgcat gccatgcaaa ggaaggaata 180
ttgcgctttt aaatatymgt tttattaagt aagtggttac tctttcaarg acaaaaaaaa 240

```

514

```

tgcaaattgt  tacaaaaactg  gcagtatttg  taagtgcaag  cactacacgc  tgccttggtc  300
ttttaccaat  tgcatttgca  ttttaaggta  ctacttgtac  agccatgggtg  gagaacagtt  360
tggagggttc  tctaaacact  gaaaatagag  gtgccacatg  atccagcaat  cccactgttg  420
gatataatcc  ccagaaataa  gaaatgagta  tatcgaagaa  attatctgca  ctcccatgtt  480
ggttgcacca  ctgttgacaa  tagctaagat  ttggaagcaa  cctaagtgtc  catcaacaga  540
ttaatgtatt  aaagaaaatg  tggtagatac  acacagtgga  gtattattca  gcctanaaaa  600
gaatgagatt  cagtcatttg  620

```

<210> 764

<211> 1934

<212> DNA

<213> Homo sapiens

<400> 764

```

ccatgcactc  cagcctgggt  gacgagaaag  actccgtctc  aaaaaaaaaa  aacaaactct  60
tatttaattt  ttagttaaaa  ttaaaacact  agtacttcag  aatatagata  caagtacacc  120
atcttgaaga  atttggagtt  tttcagggca  attcaaataa  cctcattttt  tgttcttttt  180
gtattccaga  cagtgtttct  gtcattggat  ctctgattgg  tagtgtaaat  aaatattctt  240
tcagtgtgag  ccagattcat  aaaattaatt  ttcttcattt  tagtagtaaa  aagtagtcta  300
atagcttttt  gtcagcttga  ttttktgtg  tgtgtaatat  tcaagggcag  aatgacagga  360
cagataagca  ataagaaatg  tatagaatta  gaaaatatag  tagttccctc  ttacccatgg  420
gacatacggt  ccaagacccc  cagtgaacgt  ctgaaaccat  ggatagtata  gacacctcta  480
tacactgttt  tttcctatac  atatatacct  atgataaagt  tctattttata  aatcagggac  540
agcaagagat  aaacaataac  tgcaaataga  acaattataa  cagtgcactg  taataaaagt  600
gatgtaaatg  tgatatgtct  gtctctttct  ctyaaaatat  cttattgtac  tgtactcacc  660
tgtaatcaga  ctgtgggtga  ccgtgagtaa  cccgaaacca  cagaaagcaa  aatcgtggat  720
aaggggagac  tactctatat  gaaacttaag  ttacaaaatt  ctctgaagca  tttgaaacta  780
gacgttttgg  aattataaaa  tagtcccttt  aaaatatcca  ctagtagaaa  aaaacttcat  840
ttgcagagaa  aagattgcaa  taaaactcat  tcctaaactt  ttcaatttta  taaaattaaa  900
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aatgatttgc  aattagatgt  ttccattctt  gaaagaaaaa  agctgcaaat  aacattttca  1260
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ccaaatata  ctatgttggt  acttaagata  ttctaaatgt  ggataacttc  tgacctagga  1500
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tcttcagttg  gcattttatt  agagttttat  ttgaatgctt  attaaaagta  tatgatttat  1620
aatattttag  aaatagaaga  aaaaagaaaa  ctgtagatgt  tttatcttgt  ttttaatactg  1680
tatgtttagt  acgtatacat  ttatgttcta  gtgtatcaaa  atttttcatt  ttcattaaag  1740
tgaatccaat  tttccatatt  ctagggtccat  tttaaaccat  gaaaacttta  atcacatatt  1800
ttgtaaaggg  ctgaaagtat  gatttaaact  acagattgat  atattttta  tctaaatgaa  1860
aggtaatgta  aataagcatg  gatctgattg  aataaagatt  ttaaaatarw  aaaaaaaaaa  1920
aaagggcggc  cgct  1934

```

<210> 765

<211> 159

<212> DNA

515

<213> Homo sapiens

<220>

<221> misc feature

<222> (152)

<223> n equals a,t,g, or c

<400> 765

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acctggcctc tctattctct mcttcctctt tctagaattt ctattaggcg gatgttgaat 60
ctcctgaatt aatctctaata tttcttccct tccctttccc ttctccttcc ctcccttcc 120
ccttctctcc cctccctccc cctmccctcc cntccctc 159
```

<210> 766

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<400> 766

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acccacgcgt cckcccagaa tactgggtcc aaatacagaa tactaggctc aaaaggctgc 60
catgcggctg gccttcctgc tgggaaggag tctgtctgtg tgtctgtctg tgtttaggaa 120
gggagggttg ggcagggcag ggtcagagag cactgccgtg gggaggaggg tatccatttc 180
ctggtgatat ccttccattc aaagcgggta tcccagaaca ggtggccagg gacgggtgag 240
ctggggaggg ccaggagaga gatctctgct tgtgtgagaa aggatggccg agctggccta 300
gaaccgctgc tagactatct ccaaagtctt tgcagcacc tgaagggtgaa ccagtgcctt 360
cagaccttcc ctgacaccta agccttggtc ctaggaaara aaaaaaaaaa gggnggccgc 420
tctagngggt ccaagn 436
```

<210> 767

<211> 752

<212> DNA

<213> Homo sapiens

<400> 767

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tgcacccacg cgtccgcccc cgcgctccggg tgggttaaagg gccatgagcc caaaccacta 60
ggttgttcac cttttcatct gaaaatgctt tactctgact atgtgctatt gggttttatt 120
tccagaaaaat atagttctcc ttttttctgc atgaaggata catcgtggtg ccacatgctt 180
```

516

```

taagcaattt aaacaagaga gataagagga aaatgcaacc accacatctg acttgcccaa 240
tgtagacttt cctctattag attgaagtac acaacctaat atgatataatt atttttagt 300
atctcagact ttgtaaataa ataccattat ttttatatgg aaattttata gaagagctat 360
ttctgtatac gtaattactc ctgattttct gaaattgctt ctggtagata acagacaagt 420
cctaagcagt gttccactaa ggggtggttc aggcctgcct gccgtggagt tgactggggg 480
aattttacag ttttgcgatc ctaggatgcg tcccagacgc tcagtcagaa gtgctggagg 540
tggggcctgg gaagctgtat ttgtaatgaa ctctgggtgt ttttgtccat taaagtgtat 600
ctttgtccat cctataagat taaaggaaag aaaaagcatc tcaaagagt gtaagttgtt 660
cttgagaaaa aaatgtatca gacttttatg atttgaatga aatgtattat agaaaaaaat 720
aaacacttta aaataatgtt agtctcatta aa 752

```

<210> 768

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 768

```

gcggccgcgg ggtggcgctg caggtggtgc gggaagccag ccaggagagc aagttgctgt 60
sggtcatccg tgagaccagg gcggcgagtg gaagcacggg cggatcatcc tgcccagcta 120
cgacatggag taccagattg tgttcgaggg agtgataggg aaaggacgtt ccggagagat 180
tgccattgat gacattcgga taagcactga tgtcccactg gagaactgca tggaaacccat 240
ctcggctttt gcagggggca ccctcctgcc agggaccgag cccacagtgg acacggtgcc 300
catgcagccc atcccagcct actggtatta cgtaatggcc gccggggggcg ccgtgctggt 360
gctgggtctcc gtcgcgctgg ccctggtgct ccactaccac cggttccgct atgcggccaa 420
gaagaccgat cactncatca cctacaaaac cttccactac accaacgggg cccctctggc 480
ggtggaancc ca 492

```

<210> 769

<211> 1174

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

517

<400> 769

```

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agtgtgctct gagggagggt ccgagccagc cgctgttttg ccggaggagc ccctcaggcc 120
gtagtaagca ttaataatgt ctttcatctt tgagtggatc tacaatggct tcagcagtggt 180
gctccagttc ctaggactgt acaagaaatc tggaaaactt gtattcttag gtttggataa 240
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aacactacat ccgacatcag aagagctaac aattgctgga atgaccttta caacttttga 360
tcttggtggg cagcagcaag cacgtcgcgt ttggaaaaat tatctcccag caattaatgg 420
gattgtcttt ctggtggact gtgcagatca ttctcgctc gtggaatcca aagttgagct 480
taatgcttta atgactgatg aaacaatatc caatgtgcca atccttatct tgggtaacaa 540
aattgacaga acagatgcaa tcagtgaaga aaaactccgt gagatatttg ggctttatgg 600
acagaccaca ggaaagggga atgtgacctt gaaggagctg aatgctcgcc ccattggaagt 660
gttcatgtgc agtgtgtctc agaggcaagg ttacggcgag ggtttccgct ggctctccca 720
gtatatggac tgatgttttg acggtgaaaa taaaagagtt ttacttctct ggactgatcc 780
tattcacagc ttctcatga acttttctaa tagaacaagg aaagctctcc aacctgtctc 840
ggcgttgaga agccaagagt ctctgtcaac tctctcattg cccagtgggtg acatgtgctc 900
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graaaacacg tctcaccact gtggttgatt caaaagaaag tgattctatt ttttaaagaa 1080
agcgttggtt atgtaattgg tatccctcct aactttttga gttcasaatt tacttggtca 1140
gattttctat tctttttttt ttttaaacta atga 1174

```

<210> 770

<211> 2468

<212> DNA

<213> Homo sapiens

<400> 770

```

gaaggaaggc atcctctttg tcacctaccc agatggtagg ccaacagggg acgcttttgt 60
cctctttgcc tgtgaggaat atgcacagaa tgcgttgagg aagcataaag acttgttggg 120
taaaagatac attgaactct tcaggagcac agcagctgaa gttcagcagg tgctgaatcg 180
atttccctcg gccctctca ttccacttcc aacctctccc attattccag tactacctca 240
gcaattttgt cccctacaa atgttagaga ctgtatacgc cttcgaggtc ttccctatgc 300
agccacaatt gaggcacatc tggatttctt gggggagttc gccacagata ttctgactca 360
tggggttcac atggttttga atcaccaggg ccgccatca ggagatgcct ttatccagat 420
gaagtctgcg gacagagcat ttatggctgc acagaagtgt cataaaaaaa acatgaaggga 480
cagatatgtt gaagtctttc agtggttcagc tgaggagatg aactttgtgt taatgggggg 540
cactttaaat cgaaatggct tatccccacc gccatgectg tctctccct cctacacatt 600
tccagctcct gctgcartta ttcttacaga agctgccatt taccagccct ctgtgatttt 660
raatccacga gcactgcagc cctccacagc gtactaccca gcaggcactc agctcttcat 720
gaactacaca gcgtactatc ccagccccc aggttcgctt aatagtcttg gctacttccc 780
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gaagtttgtc tacactcagg ctgcagtatt ttacgcaaac ttgattggac aaacgggcct 1020
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gttttaagtc ttggataaaa actccaccag tgtctaccat ctccaccatg aactctgtta 1260
aggaagcttc atttlygtat attcccgctc ttttctcttc atttccctgt cttctgcata 1320

```

518

```

atcatgcctt cttgctaagt aattcaagca taagatcttg gaataataaa atcacaatct 1380
taggagaaaag aataaaaattg ttattttccc agtctcttgg ccatgatgat atcttatgat 1440
taaaaacaaa ttaaatttta aaacacctga agatawatta gaagaaattg tgcaccctcc 1500
acaaaacata caaagtttaa aagtttgat ctttttctca gcaggatca gttgtaaata 1560
atgaattagg ggccaaaatg caaaacgaaa aatgaagcag ctacatgtag ttagtaattt 1620
ctagtttgaa ctgtaattga atattgtggc ttcatatgta ttattttata ttgtactttt 1680
ttcattattg atggtttgga ctttaataag agaaattcca tagtttttaa tatcccagaa 1740
gtgagacaat ttgaacagtg tattctagaa aacaatacac taactgaaca gaagtgaatg 1800
cttatatata ttatgatagc cttaaacctt tttcctctaa tgccttaact gtcaaataat 1860
tataaccttt taaagcatag gactatagtc agcatgctag actgagaggt aaacactgat 1920
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tataaaagtg caatattaga cactagctag tactgtgccc tcatgtaact ccaaagaaaa 2040
caggatttca ttaagtgcac tgaatgtggm tatttctcta agttactcat attgtccttt 2100
gcttgaatgc aatgccgtgc agatttatgw ggctgctatt tttattttct gtgcattact 2160
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ctgaaagact ttaagatagg cagtaatgct tactacaata ctactgagtt tttgtagagt 2400
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aaaaaaaaa 2468

```

<210> 771

<211> 1488

<212> DNA

<213> Homo sapiens

<400> 771

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tcgaccacg cgtccgcggg aagcgagccg cgcagcaaca aactcgccgc cgccgccctt 60
cagcgactgg rgccgcctgg aggcgcsatc ctcagcggct ggaagacctt ctggcagtca 120
gtgagcaagg agagggtggc gcgtacgacc tcacgggagg aggtggatga ggcggccagc 180
acctgacgc ggctgccgat tgatgtacag ctatatattt tgcctttctt ttcacctcat 240
gatctgtgtc arttgggaag tacaatcat tattggaatg aaactgtaag agatccaatt 300
ctgtggagat actttttgtt gagggatctt ccytccttgg tcttctgttg actggaagtc 360
tcttccagat ctagggaatct taaaaagcc tatatctgag gycactgatg gtgcattttt 420
gactacatgg cagtctatag aatgtgctgt ccatacaca gaagagcttc aaaatccagc 480
cgtcctatgt atggagctgt cacttctttt ttacactccc tgatcattca gaatgaacca 540
cgatttgcta tgtttggacc aggtttggaa gaattgaata cctcttttgt gttgagcttg 600
atgtcttcag aggaactttg cccaacagct gggttgcttc agaggcagat tgatggatatt 660
ggatcaggag tcaattttca gttgaacaac caacataaat tcaacattct aatcttatat 720
tcaactacca gaaaggaaa agatagagca agggaagagc atacaagtgc agttaacaag 780
atgttcagtc gacacaatga aggtgatgat caacaaggaa gccggtacag tgtgattcca 840
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cataaaagac atgaatggca agatgaattt tctcatatta tggcaatgac agatccagcc 960
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tcctgccttt ttgcagatag gctttcattt ggacagctat aactgctgtg ttttttatat 1320
tatttttact ctttaccata aatcaattac aagaaaagag tttcagtcct agtatttagc 1380
cccaaatga acctttaaac attttttttg taatttttat attttctgtc tttttaaaaa 1440

```


519

tatttaaattc tggaaaaaam aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

1488

<210> 772

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

<400> 772

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aaagcaagct atgaaatgct atattttagt gcttaaaagt aaattagtgt gttttcttaa 120
aaatctaaac caagattaaa atgaatatag tcataggtat gaggggcatg taatttatct 180
tccgactgga gatacctttg agagttaaag gaggagcaat taattgttat tccaggacaa 240
cagatatataa tcgagattat actaggtgaa ctgggacata tggtcattct tgtcatagct 300
taattcagga aaaaaggagt tagggaartc tgaargtcta actcaaagtt tngatgcttt 360
ttaagcaagt ttagggaaact tgagatgacc tgattgagac ccctaaatct acagatgagg 420
aaagcaagcc tcaagcaagg ggggcctgac ctttccctgk tccctgkgta ttcttgkctg 480
kggcaaarcc cattgccttg attctcttct ctttactttc attttgagaa gtannttctt 540
tctgcng

```

<210> 773

<211> 1394

<212> DNA

<213> Homo sapiens

<400> 773

```

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tgtgtaacct atttcctatt gctagttcag ttggctttct tattcacttc tgtgaccttg 120
aaccagttct cagaccctag agtgtaagag cattgatatt ctacgctgtg taatctagct 180
caatccctct gtccccctcg cctcacgcgc ccccagccac cacattgtat agcaaaagca 240
ttacattcaa tcctagaaya aaggtaaata caacaaatca tctttgcagc tggacaacta 300
ataatacttt gcagcattaa gagatcttct gtgttaccag tcaactctgt gaaatgaact 360

```

520

```

ttccgaatct ctttattcag gaaaacatgg ggttttgaaa ttcttggggc aagagacata 420
actgaggggt tcgcagagct aggcaagggt gcactaggaa agggccacat tgggtgggtgg 480
ggggtaacag agaacagatg gtgtcaggaa gtttctctgg agtaaataat gtggatatct 540
ttgggtttccc tctcctccgc cagctgaagc tgtgttagtg ctgttgacac taatataaaa 600
tgtttgggtcc atttgaaatc cttgtcattg ctttatatgg gggaaactca atccccagc 660
ctgtgttgga aatatcacca aactgattgt aaatgtgcgg ctgtagcaga catttttagtg 720
tgggtgggtg cagccatttc ggccctacac ctgccarcct ggctacctta cagttgtgtt 780
ccgatttttg cgtctatgct tgggtgtgcct cacttgctgc attttccagc atgcaaccag 840
gagttgacgt aggaaaaagg gatgctttct tactttggaa gctctcaggg aagttgggtg 900
caatttctcc tccactgcct ggccctaccct gcactcccaa agattttgtg cagatgggta 960
gttccatttt ttaaaaaattg tgcagatatg gaaaattgtg acttacttca tgaccagaac 1020
tatctagaat atgtgtgggg gtataaacat cttgcttaac caaatatcta tgtaggcaga 1080
ggtaaccagg agagaagcaa gacttgctgc ctaaaggagc ccaccatttt acttttcaca 1140
tttaactctg caggttgaat caattggaat aaaacactgac tcgcaggtga ctggacagga 1200
aatcccaaag ttccaccatt tctatgctta attttaacgt cccccgctt ttttttttgt 1260
agaaaataaa aacaagaaaa tcgttccaat gtaagatgtt tgttatagaa acttttaggca 1320
atacaggtgt gtaataaaaat gttaataaaa cttctaaca cttttgtatt tggataaaaa 1380
aaawaaaaat aaaa 1394

```

<210> 774

<211> 667

<212> DNA

<213> Homo sapiens

<400> 774

```

agtcggtccc ggagctgcct ggaggcggcc gcactcgggg atcatggccc aagttgcaat 60
gtccaccctc cccgttgaag atgaggagtc ctcggagagc aggatgggtg tgacattcct 120
catgtcagct ctcgagtcga tgtgtaaaga actggccaag tccaaagccg aagtggcctg 180
cattgcagtg tatgaaacag acgtgtttgt cgtcggaact gaaagaggac gtgcttttgt 240
caataccaga aaggattttc aaaaagattt tgtaaaatat tgtgttgaag aagaagaaaa 300
agctgcagag atgcataaaa tgaaatctac aaccaggca aatcggatga gtgtagatgc 360
tgtagaaatt gaaacactca gaaaaacagt tgaggactat ttctgctttt gctatgggaa 420
agcttttaggc aaatccacag tggtagctgt accatatgag aagatgctgc gagaccagtc 480
ggctgtggta gtgcaggggc ttccggaagg tgttgctttt aaacaccccg agaactatga 540
tcttgcaacc ctgaaatgga ttttgagaaa caaagcaggg atttcattca tctkaagag 600
stgaagtgtt tctccgttgt accatcacag tgatcgata attgaaatta gctacgttaa 660
tgattta 667

```

<210> 775

<211> 1610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<400> 775

```

gagagaaata gaaagaaaaa gacaaagaga agaagagagg aggaaatgga aagaagaaga 60
gaaacgaaaa aggaaagata tagaaaagct aaagaagata gacagaattc cagaaaggga 120

```

521

```

caaattaaag gatgaaccaa agattaagct gctcaagaag ccagaaaaag gagatgaaaa 180
agaattggac aaaagagaaa aagccaagaa attggacaaa gagaatctca gtgatgaaag 240
agccagtggg caaagttgta cattgcccaa gcgttctgat agcgaactta aagatgaaaa 300
accaaagaga cctgaagatg agagcggcag agactwtagg gagagggaac gggaatatga 360
acgagatcag gagcgcatatc ttcgagaaaag agagaggctg aagcggcaag aagaagagcg 420
ccgtagarga aggagcgcta tgagaaaagag aagactttta agagnaaaga agaagaaatg 480
raaaaagaga aagacacact tcgggataaa ggaaagaagg ctgaaagtmc agaatcaata 540
ggcagctcag aaaaaactga aaagaaagaa gaagtgggtca agagagatcg aataagaaac 600
aaggatcgtc cagcgatgca gctttaccaa ccaggagctc gaagccgaaa tcgactctgt 660
ccccctgatg acagcaccaa gtctggagat tcagcagcag aaaggaagca ggaaagtggg 720
attagccata gaaaagaagg aggagaggag tgataagtcc agatggcctt aggtgtcctg 780
actgtctagg cagccaaaga gcacacgtta agcaatccag aggtgccttc agggcaaaga 840
atagagagaa agggagccgc tgtgctgggtg gggtagactg cagaggagta agtcttgtgt 900
caaagcagga atctgatcag aggttcagaa ttggaagtac aatttcattg cttttgcaat 960
ttctacaaat taatttttaa gtgtcagaaa aaggtgacgg caaggacatg cattgcaatt 1020
tgcaggggga attgtcaagt gaggacttca tccatatgac cgagagaaaa gtaagagctg 1080
gttctaaaaat caaaagctgk tgktcatctg aattgaattt tctgaatttg ggtggagcag 1140
agtcgctttg aagccttggt ccgatctaatt tctattgtat tgttgatgat aagtgttgac 1200
attgggtagt gtagaagcaa caagcatgtc cttgtagtac aggtacagtg aaggatagaa 1260
cacactttcg ttgatacaaa aatttaaata gttatgttac ttctgtatcc agtgtcctaa 1320
agttttagga ttagttttag ttttttgttt gcttatatga gcttagcgta aagaatattt 1380
ttaaacttcg tgttttgtca tcagcatctt ttctattaag aggtaaaatg tagtccttgt 1440
ttgactcttg acaatccagt gtgtttgatc ttaggtctca tgatctgagt gcataccctc 1500
tccaggaagg aaactgcacc agtgtctatt cctgttaaat agcaactttt agtctcagct 1560
tgtttcgttt tgatgtcaat aaatagtaac agcaaaaaaa aaaaaaaaaa 1610

```

<210> 776

<211> 555

<212> DNA

<213> Homo sapiens

<400> 776

```

ggcacgagga ggtaggaaa ccagttaaag ctggttgata tggaacttat ggacactatc 60
atatcaaaagt gggttggcat tttcctgggtg aaaatgacat aaataaaatt aaaagacttt 120
tttaaatgaa tgcttggaag ttgtaaaaac tgtcatttcc tctttttatt tcttaacagg 180
atggcttaaa ttccttggtc cttgatttag attttctctgc tttgaggaaa aacaagaaca 240
tagataattt cttaaataga tatgagaaaa ttgtgaaaaa aatcagaggt ctacagatga 300
aggcagaaga ctatgatgtt gtaaaagtta ttggaagagg tgyttttggt gaagtgcagt 360
tggtcgtcac aaggcatcgc agaaggttta tgctatgaag cttcttagta agtttgaaat 420
gataaaaaga tcagattctg cttttttttg gggaagaaaag agatattatg gcctttgcaa 480
tagcccctgg gtggttcagc ytttttatgc ctttcaagat gataggtatc tgtacakggt 540
aatggagtac atgcc 555

```

<210> 777

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

522

<223> n equals a,t,g, or c

<400> 777

```

ccctgtgcga taatattctt tcatcatttc agtgggnttt tggagggagg cggagatcca 60
ggtgatctgt ctacactatt cagtcagaaa gctggatggt ttttctcact gtttagctgt 120
gactcatact tagaaagtgg tttaaatgtg aatatcttag ttctggttgt acaattgagg 180
taatcctcaa ttcaggttgc tgtctggaca tttcatgact g                221

```

<210> 778

<211> 760

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (721)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<400> 778

```

aatagagggtt aatttttacc agaagcagga tagagaaaat attacagaga aaatcacata 60
tcacatgggc tcgaaagatg tagaggtttt tgacaaatga agaacaacca taacaggtag 120
agggaaacacc atgnaaccag ggcataaaac tgaagtgcc aacatatttc tagagagaga 180
aggggtgtggg catgagttag ggctggaaaa acagggttga aacagataag taagggtctc 240
aaatgcaatg tcaaagagct tgcagtttat tttccaggca atgagtaggc agccaaaaaa 300
aaaaagtaag gatgtttttt ttttttttcc catggcatca tatttaagag gatggattta 360
aattgtgtga gaccaaagca tagagactag ataagaggcg atcaaaatat ttcaaaaaaga 420

```

523

```

aataatgaag atccaatgaa ggaagtggaa attaaaaatag ggaagagagt agatggatta 480
gagagacatt taagagatgg aatcaataga tcctgttact agataatgga agtaagaggt 540
gaggaagagt ggaaaagtca ttaatgactc taaagatttc tgcttggctg cttaccaaga 600
ttggcaacaw amsggwggga raaaggtttg gaaaaagaag agaaaggata atgaagtttg 660
acttttacat agaaatgaaa gggcctttcc agatttggaa atcttttggg ttaaataatt 720
nnnaaatttt tgacctagaa aatttnggan ggaaaccttg 760

```

<210> 779

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 779

```

tttatttttaa aatattttatt ttatgtacaa aaaggtaaca tggtttctnt cattgggtgg 60
gtgccttaga taatccattc gtggaagatc acttagtcca acttaatgaa atctatatcc 120
ttcacgtatg anggaaacac tgggtggcatg taacgaggct caatttccag atcagactgt 180
gcccagtttc agcagacmca atagcaagaa ccctggctga cttttcgcggtggtgccag 240
tagagctgct ggtgaatcat ctgtctttca ggagtgcgac agggcaaaaag gaacaataat 300
tcttcataatc catctactac agtttcaaag cacttcagtt acgcttttta aagttcatat 360
tcttccagtc ttgaccagtg ggaactgagc tcctgaatcc ttgtgatatg acctggtatt 420
ttccatactt tcctttatga caagatgccc catccaggct cattttgtac atttctaatt 480
ccagacctag aatcagtcac cctccaagat gtcctgattc ccttttagtg aaattatttt 540
ttaaacatta catattcaga caaat 565

```

<210> 780

<211> 1386

<212> DNA

<213> Homo sapiens

<400> 780

```

gctcagagga gcaatgacga ggtggcccgga gaatttgtga aactcaaadc agagtctcgt 60
tccacggagg aggggagctg aacaccttcg actcctgtgc caatcaggca gcagcaattt 120
cacaaatcag ggccagtggg agtttagctgt gtaaccggct tagggtcttt gcagtcaaga 180
ggctgacccc ttcagttaaa gatattttaag gaaaaatttg ggggtggtgat aatatggctt 240
ttcacagaaa grgtcatgaa gccctggccc aacaggactg tggtagtagg ggctgggatg 300
tgggggttacc acatggagag attttccatt aagagagaag gacaaacatt tctgagagtg 360
tcagccattc ttggtagaca cctctccact cctcatecca cctctaccca tctccatgcc 420
acaccttadc cagtttagaca catacatacc aatcattaga agaacaagtt tagaagggtg 480
ggaacttgtg cctggctggc tgggtagtca gctgagcctg ttgctgagcc cgggtggtctg 540
gattggagta tggccagggc aggagtacac agaatagaat ttagactgtc ccttgagtag 600
aatccactga ttttctgtgg ctccagttag aacaaggctt tgaaactgaa caagataact 660

```

524

```

tctagaaatg aactgtacta atccctttcc ccagattgta tcatgagtag aatcaggttc 720
acgtggtgct tcaaagccct gagaagaata tttctttgga cccagggcac tagggggccac 780
ctgcctggga gtctccctgc ctactcctc taggcagggg agtgatgctt caggacgtga 840
caggctgttc taacatgtgt ctacctgagg gctagttgaa ggatccagga gtattttctt 900
cttggtggtg ccctgaacaa agccaaaaat tgtagaaacc agtctagaaa aagtcctgct 960
catctgtggc cactgccttc tagccgtcct ccaccttgca gaaagaatct agcctttggt 1020
ctctctctct ctcatcgggg tcatttgcta ttccctctg atattcaacc ctatagaagg 1080
agcctggact ctgatccctc tgtacaggct ggatggaagg ggccctccac acttccctggg 1140
aggctcagaga caaactgttt cagagagtca gatggacttc ccaagacttg ttgagagatg 1200
tgacatgggt cttggatttc ctctgtagca gcctcctgga ctctctgagg actcgacatt 1260
gtccacagat gtactggcca ttacatgaaa caagaaacca agcatcttgc ygttggtaat 1320
tatatagggg ccttttttagg gggtttaagg ccgtccgaaa aaaatcactt taggggaaaa 1380
aaaaaa

```

<210> 781

<211> 1229

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<400> 781

```

gcccacgcgt ccgcggacnc gtgggctaata aatgccttta acattcatac tactaccatc 60
tggttaaaggc aatctagttt tttctatcac atccacaaa attcttctar tctctacca 120
ttatccaatt ccaaagcctt ttccacattt taagacattt gttacagaag tacccaatcc 180
gtcccagttc cacaatctgc attagattcc catggctgct gtaacaaatt accctctagc 240
ccagtggctt aaaacaatag aatttattat cttgttggtt tggaagccaa aaktccaaaa 300
ttganggggt ggagggtctg aacgtcttct ggagactcta agggaaacac tcttcccggtg 360
tcttccartt tcttggtggt gccatcattc cttggtttgt gactgcatct cctctcctc 420
tgtcttcaca tcacttcccc tctgtatata taatctacct ctgcctctct cttataagga 480
cacttgtgac gggacttagg gcccatccag attaccatg ataattccct tattccaaga 540
ttcttaatta tatctgaaag gacctttttt ccaaataagg tactatcaca gggtccaggg 600
agtaggatat tgaatatctt ttttggggag ggggcacat gcagctcact acactattca 660
ttgcacacaa atgaattttt cactttttta gatgcattct tgggtgctcaa accagatcga 720
agtgtgtctc taaaagctat tgtctgcaca ggctgctgca tgctctgttg ttaaattggat 780
ggacaggcta ttctaaattt tgggtgatac ttttgctact atgggcaatt aacttgaaaa 840
aaataatcga tcccaactct gtgctctgat gtacctcttc tgccctttt atgacacctt 900
tgaccaaagt cttctatgg ttccagtgct aggcacaaaa ctacctctga tacagaaggg 960
ttcttttaca gcttatttta cataccgtga atccctcacc taaagggaga ggtgaaagca 1020
aagactgctt tgaatgggta ttgagggaga ttgtgtccat accaagccac cctgaagaag 1080
tatttcactt gcagtagaac tgtggatttg tgctgtcatt tcaccttgga ataaacacct 1140
atctctaagc aggaccaaga atgacttgca atctatatgt aatggctact tacttattca 1200
ataaagttaa gatatacggt aaaaaaaaaa

```

525

<210> 782
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (186)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (302)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (329)
 <223> n equals a,t,g, or c

<400> 782
 tatgtaaata tgtacacaaa aattgttcct ccaaagacat ttttcagtat cttagcatat 60
 tctaaggggtg cagatgtaga attattttctc ttctctggct cagtagcatg tcagaatgga 120
 acataggtat agaatgtttt ttgtatagac aaagcttcac tttcaggggc aaggtttggg 180
 aaatangctg atagtaaagt catgtaacac ttctgtgcag gttaacattt ctggaccttg 240
 ctttccttct cagtgtatgc atgagctatt yttcatgcac cactggggggg cccagtcttg 300
 gnttaatcta ccagttggaa ttttaggang gacctgggct tgtttgg 347

<210> 783
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 783
 atttaaaaaat gcaagtgtgc tggcagaaaag gggactgatg attctgtgac tctgcagttg 60
 cagaagctcc gtgtaggaga ttatttggac atagcgatta cccctcttaa tcaggtgcca 120
 cctccttcag ggcacatgag atcatattaa attctttttg agatagggtc tcaactatgtt 180
 gcccaggtctg gtctttaact cctgggctca agcaatcttc ccacttcagc ccgccaaagt 240
 gctgggatta caggcatgag ccaccacaac caacaagggtg ggtattaaat ctctt 295

<210> 784
 <211> 734
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (100)
 <223> n equals a,t,g, or c

526

<220>
 <221> misc feature
 <222> (645)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (663)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

<400> 784
 aattcggcac gagcggcacg agttgttgcc tgggctggac gtgggtttgt ctgctgcgcc 60
 cgctcttcgc gctctcggtt cattttctgc agcgcgccan caggatggcc cacaagcaga 120
 tctactactc ggacaagtac ttcgacgaac actacgagta ccggcatggt atgttaccca 180
 gagaactttc caaacaagta ctaaaaactc atctgatgtc tgaagaggag tggaggagac 240
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 ttctttctct tagacgacct cttccaaaag atcaacaaaa atgaagttaa tctggggatc 360
 gtcaaatcct tttcaaattt aatgtatatg tgtatataag gtagtattca gtgaatactt 420
 gagaaatgta caaatctttc atccatacct gtgcatgagc tgtattcttc acagcaacag 480
 agctcagtta aatgcaactg caagtagggt actgtaagat gtttaagata aaagttcttc 540
 cagtcagttt ttctcttaag tgcctgtttg agtttactga aacagtttac ttttgttcaa 600
 taaagtttgt atgttgcat taaaaaaaaa aaaaaaaaaa agggncggcc gccccaaaag 660
 ggncccagct tacgtaccg ggccatgcga cgtccaagcc cctccnaaag gggcccccaa 720
 attccattcc ctgg 734

<210> 785
 <211> 1311
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1265)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1291)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1310)
 <223> n equals a,t,g, or c

<400> 785.

527

```

ctggcccgac tactttcggt ccgtcttcca tcgttttctc tcgtgcaatg gcgtccgggc 60
tggttaagatt gctgcagcag ggacatcgct gcctcctggc tccagtcgcc cccaagctgg 120
tccctccggt tcggggagtg aagaagggat tccgcgccgc cttccgcttc cagaaggagt 180
tagagcggca gcgcctttct gcggtgcccc ccgccgcccg tgcgccgttc agagaagccg 240
aactgggatt accatgcaga aatacaagct tttggacatc ggttacagga aaacttttcc 300
ttagatcttc tcaaaactgc atttgtaaat agctgctata ttaaaagtga ggaggccaaa 360
cgccaacaac ttgggataga gaaagaagct gttcttctga atcttaaaag taatcaagaa 420
ctatccgaac aagggacatc tttttcacag acttgccctt cacagtttct tgaagacgag 480
taccagaca tgcccactga aggcataaaa aatcttggtg actttctcac tggtgaggaa 540
gtcgtgtgtc acgtggctag aaacttggtc gtggagcagt taacactgag tgaagaattc 600
ccagtgcgcc cagctgtgtt acagcagact ttctttgcag ttattggagc cctgttacag 660
agcagtggac ctgagaggac tgcacttttc atcagggaact tcttaattac tcaaagtact 720
ggaaaagagc tctttgagat gtggaagata ataaatccca tggggctatt ggtagaagaa 780
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acagctttgc ctttgatatt tgttggttta tactgtgata aaaagttgat tgcagaagga 900
cctggggaaa cagtattggt tgcagaagaa gaggtgtctc gagtggccct tagaaaactt 960
tatggattca cagaaaatag acggccgtgg aactattcca agcccaaaga aaccttgaga 1020
gcagaaaaga gcatcactgc cagctagccg ccattggatgc agcagcctga aacttgagag 1080
cgaaagtgag ataaatgtca aaggtgtttc aagccagaca ttttcacaat tgtgaagaaa 1140
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acagtgtttt tggttttgtt tttctgaaat cttggttttg atcaaatctt tttttttttc 1260
tcttnagatg gagtcttact ctgtcgccca ngcttggaact gcaatgggtn c 1311

```

<210> 786

<211> 633

<212> DNA

<213> Homo sapiens

<400> 786

```

acctactcct atatactgac ctgcctgtcc acgaataatk gtaarggggt tttgcmgtga 60
cagtttttac aagaattaca gtttkgtgaa gttgtgtcta aattaaagca tttctttaga 120
acaaatggcc ttaaattctc acggaattcc tggaaatgat tgtgaattgc cttcaaataa 180
tagaaaagtg tattttattt tgtgtgtgtg tgtgtcaaaa atgtaactgc tttataatat 240
tttttcctta cctatatatt ctattttaata cttggtttat ttctactgta cattgttttc 300
tttgtcccaa gttgacctag ggtgactttt ataagcatga aactatttta ctggaaagaa 360
aaatatatac atccacatat ctaacagtat caatgttata taactatgta ataattgttg 420
atttttaatt atgtattaaa atctttaaat cataactatt tgctttgtac gtttcatgta 480
tgaatgacaa tagtttgatg atttccttta ctgatcttaa atatttatgc cactacagtg 540
tattacctac rgatttttaa atttagcttt atttatcaac ccaaaaaaca aataaataag 600
atcaatattc ttttcttctt gtcaaaaaaa aaa 633

```

<210> 787

<211> 1017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

528

<220>
<221> misc feature
<222> (885)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (971)
<223> n equals a,t,g, or c

<400> 787
aattcggcac gaggtctttt cagcctgttaa ttctttgggc cccaaagaat gacaaaggag 60
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<210> 788
<211> 2718
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2713)
<223> n equals a,t,g, or c

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tcttcaagga caagaagaat tattgtcatc acaagagaaa tctcctggca ccaaggatgt 240
ggtagtaagt gtggaatata gtaaaaagtc cgatttagat acttccaaac cactcagtga 300
aaaaccaatt acacacaaaag ttgaggaaga ggatggcaag actgcaactc aaccactgtt 360

529

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gaaaaaagaa tccaaaggcc ctattgtgcc tttaaagtga gctgaccaa agcttcttga 420
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agcgatggct actttgctta gcaagttccg gatagacttt tctgatatca tggttctagg 660
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<210> 789

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1676)

<223> n equals a,t,g, or c

530

<400> 789

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agtagaagtg atggatgaaa ccaagtgtctg ctgttttttc aaacgaagga aaaggaaaac 180
catacagcgc cacaaatgac tctggacaca gacagatcct ggggagttac ttacatgttc 240
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2630
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<210> 790

<211> 309

<212> DNA

<213> Homo sapiens

531

<220>
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 <222> (307)
 <223> n equals a,t,g, or c

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 tcagttaaag gagctaaatg aggcagtagc agccttktgt ggtgaccaag aaattatgaa 180
 ggccacagra cakagtctag acccaccaat agaggaaaga gcatcatctg agaaatagca 240
 ttgaaaagct gagagcccg ctagaaaactg atgagtagaa ccactctgtg tcttacaaca 300
 actgaanga 309

<210> 791
 <211> 640
 <212> DNA
 <213> Homo sapiens

<400> 791
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 ccaaggagct gctgacggcg ggaagcgacg gccgcggagg tatatgggac aggttgctca 180
 tcaactccca acctaagtcc agaaagacct ccactcttca aacagttcgg atagagagga 240
 gtcccttatt ggaccaggta cagacatttc tcccacagat ggcacgggca aatgaaaagc 300
 taagaaaaga aatggcagct gcaccacctg gtcgtttcaa tattgaaaac attgatgggc 360
 ctcatagtaa agttatacaa atggatgtgg ctttgtttga gatgaatcag tcggattcaa 420
 aagaagtgga cagttcagaa gagagtccac aagacagttc agagaacagt tcagaatcag 480
 aagacgaaga tgacagcatc ccatctgaag tcaccataga taacattaag cttcccaatt 540
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<210> 792
 <211> 590
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (237)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (267)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (348)
 <223> n equals a,t,g, or c

532

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<400> 792
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 aattatattg taggggtgta ccattttgta tttcaagttc ctgagaagag aatttgaaca 180
 gtttgctatt tggaaatttt agcaaccagc taccttgcct atggaaagat taaaaanaaa 240
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 aactcatcac caacaagact catgaccact tttatacttc atgagtgnat tgtatttgta 360
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 attgggtaaa cttttgttgg tcatcaaact atatttagcac tgggtccaata gtttaatttt 540
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<210> 793
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (41)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (441)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<400> 793
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 caaggtgcct tctgctgagg ctccggtctg agcctggcct cgggtcggtt caccgcccc 360
 gtgtccggca tcttccartt ytytgccart ctgcamgtgg gagccggatg gggcagtgcc 420
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533

<210> 794
<211> 1664
<212> DNA
<213> Homo sapiens

<400> 794
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tcccagagtct caccctccca ggcagctcct acactcaact gcttctctag gaaaggtctc 180
acctccagcc tggagcagtc gggattacag aaagcccat ccttggettta gggagcgcca 240
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agagcaca aaa gggcaagcac gtcaaggtct ccaactcagg acgcttcaag gagaagaaga 480
aagtgaagac cacgtggca gagaacccta acctctttga tgatcacgag gaaggacggt 540
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<210> 795
<211> 1929
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (601)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c

534

<400> 795

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<210> 796

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

535

<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

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<210> 797
<211> 1069
<212> DNA
<213> Homo sapiens

<400> 797
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cccagcaaca ccagcctcct ggccacctcc tctccaatgc ctgtgaaaga ggagtttctg 180
ccatagcccc atgcccagcc tgtgcgccgg gggacctggg gactcgggtg ctgggagtgt 240
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ggacagtcac ctatccaccc tctgcatccc cttggcccat ctgtgcagta agcctgttgg 360
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tgatctcaat ctcccgtggg catctcaagc cccaaatggt tgggggaggg gcctagacaa 480
ggctccaggc cccacctcct cctccatagc ttcagrggtg cagctggagg ctgctgtggg 540
gaccacactg atcctggaga aaagggatgg agctgaaaaa gatggaatgc ttgcagagca 600
tgacctgagg agggaggaac gtggtcaact cacacctgcc tcttcttgca gcctcacctc 660
tacctgcccc catcataagg gcaactgagcc cttcccaggc tggatactaa gcacaaagcc 720
catagcactg ggctctgatg gctgctccac tgggttacag aatcacagcc ctcatgatca 780
ttctcagtga gggctctgga ttgagaggga ggccctggga ggagagaagg gggcagagtc 840
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aggactttat tcggaccaag cagagctcac agctggacag gtgttgtata tagagtggaa 960
tctcttggtg gcagcttcaa gaataaattt ttcttctctt ttcaaaaatg tataaaaatc 1020
attatacata gcattaaaga aacatttttg agaagtamaa aaaaaaaaaa 1069

<210> 798
<211> 869

536

<212> DNA

<213> Homo sapiens

<400> 798

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ggtttcacca tgttgcccag gctggtcttg acctcccgac ctcaagtgat ctgcctgccc 60
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tttttgtaga gagatggggg ttccgcatgt tgcccaggct aatctcaaat tcctgagcta 180
aagcgatctg cccacctcgg cctccgaaag tgctaggatt acagatgtga accactgtgc 240
ctggcctgtt tgtttgtttg tttaaaacat ttctccatca ctcatccag gtcccagagc 300
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ggtcatactc tccaacagtt ttcagagctc catatatatg tagatgccaat cctttctaaa 420
aacttctcac gacctccygg aatattccta ttgatctcat tttatttagc atcagctcaa 480
gaaactaagt cttagtgcac agtatcacia caaagaaaaa gctttgtttt tataactggg 540
aaaaacaaga aaagattctc atcaaaatga aaatataaaa ttaatcattt ctcaccaaag 600
agtatgcctg ggagcctcca gctgttaaaa gacaatgcta ttactacttc ttatcaaaaa 660
tctgtaatgc cctgtgattt ttatgatact tcttcaatac aaagtgttaa tatgtgtcat 720
cagtataata acaaccaaca aaatgccact ttcagaaaaa tgtatgtaaa ttttttgtaa 780
caatgtaaaa aagaaatggg gagtaagtgt tcacatcatt aaaaggcttt gaattcatgg 840
aaatamaaaa aaaaaaaaaa aaaaaaaaaa 869

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<210> 799

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<400> 799

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caggtagacg tccaggggca ggcagtgcc cagctggacct ggtggccctt tcctagtgcc 120
tctgctgggg gaggagaacc tctgtccacg tggaggctag gaggtactac caggccctgg 180
cagcaccaga gtgtggccgg gcccgagtgt ctccctcgg cctcagggtg gggcacttag 240
caccagaag ggaccaaag cagggcatgg cgggtgcagag gagtttggga ggtgtaaaca 300
gccccatgca cgtggaggag gagactgttt cagccncaga cccacgcta gcactttcca 360
cgstgcttgc ccgctgttga tgtgcagttc ccagtgcctg tgtgagccga catctgctca 420
gtcctatccc tcgtcagcgt gtggagaccc agctcctgca gccctcctgc tcccaagccc 480
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caaagctgcc tccacgtgcc caaggattca gatggtgcac tggccccggg aggagtctga 600
ccaaaaatgg agccccctct gtggggaagc cccgactccc ccacgagaaa cgggtcccacg 660
gtgcggatct ccccttccc ttgtggggca cagctggcct gggcctccaa tcctgcggag 720
ctttcctggg tgtggctttg acctcagaag tggctctggg ttggcctcag gagtgtggcc 780
tggcccagcc tgctgcagcc tcctgggggg cccttgatgc cactaatccc ccgaccccc 840
gcatctgcca aactgcacag acacacgcat tgtaaggccg cttgtggcct ccagcgtgca 900

```

537

```

ctcttgttta cgtcattgtc atcttcaaga ccagtccttt gtgattagtt ttgcttcgcg 960
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tgtatgtgag tctgtaccca ggtgggggtct gtgccctgca caccgggccc ctctgtattt 1080
atcgctgcct gaatgcaaca gtaatttata tccaggacaa atacagtctg ggcgtcacta 1140
tcctaaaaaa aanaaaaa                                     1158

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<210> 800

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 800

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atrggtatgg taatttcaaa gtgaattggg aattcctctg gtcatagaa cccttttttt 120
tttcctttaa gtattcttga gatacaaaaa aaaaaagtaa atamaatttc aaaaaaaaaag 180
ttccggatct gtttttaagc tccatctggt cctcataacc tgcaagattt ttcttaaaac 240
ctttcagctg aaagtggggg taaagggtgga gtaatctgtg gatttgtttc tgttgtcttt 300
taaaatgtca aatatataat atgtaatttt tttaaaaacc accagatata gaaatgtgct 360
ttaacatcag ttgaaaccta aattttctta tgttgtgggt attgtattaa aaagggataa 420
aagaagagtg tcaaacatgg ttaaataat tgtactcatt tatgttgaat acgtattaaa 480
attaagacaa atggaaaatt atacttttag tatataattt gttaaataat actttatatk 540
gtaattttat gtataatttc atatattggt aaaattcaaa actacacttg agaatttttt 600
tatcttaagt ttggggtgaa tgggggtggat gagactgatt gaatagaaaa gggctaattg 660
cccaaacatt atatagattt ctttttttca gtcagaggcc ttatttgata ttttataaat 720
aaatgacagt ttttattttt aaacttttta ttgttttttg gaaagtattc cttaatttaa 780
tgacacattc attcagatac ttcttatccc tgctaataaa ggaaatctat ttcaagctac 840
accattgaga ttaagtctga ggcagttcat tgaggcagct ctactataaa agcttacttg 900
ataaataatt atttttgtaa acaagttggg ttaacttatt cttcgtcttt ttgcttggat 960
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tcctattttt tttttttttt tggttgttgt taaacagaac ctttaagttta tgtttgaggt 1080
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ttgtctcttc ttagtgcaaa actacttagc agtgacctct atctgtattc cttaggaatt 1260
agcagcttct tagtgtggat cctgcagaac ttcttaccat ttgtagtagg ttgaatcatg 1320
tcccctagaa ggtaagtcta agtcctaact tgatacacct gggaagggtg ccatatttgg 1380
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```

<210> 801

<211> 609

<212> DNA

<213> Homo sapiens

538

<220>
 <221> misc feature
 <222> (32)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (600)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (601)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (606)
 <223> n equals a,t,g, or c

<400> 801
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 tattgccarg cattmcarga atamcccac actaataact ttcctttgca aaaactgcag 120
 tgtgctagcc tgttctgggg aagatatcca tgtaattgag aaaatgcac acgtcaatat 180
 gaccccgaaa ttcaaggaac ttacattgt aagagaaaac aaarcactgc aaaagaagtg 240
 tgccgactat caaataaatg gtgaaatcat ctgcaaagt ggccaggctt ggggaacaat 300
 gatggtgcac aaaggcttag atttgcttg tctcaaaata aggaattttg tagtggtttt 360
 caaaaataat tcaacaaaga aacaatacaa aaagtgggta gaattaccta tcacatttcc 420
 caatcttgac tattcagaat gctgtttatt tagtgatgag gattagcact tgattgaaga 480
 ttcttttaaa atactatcag ttaaacattt aatatgatta tgattaatgt attcattatg 540
 ctacagaact gacataagaa tcaataaaat gattgtttta ctctgmaaaa aaaaaaaaaa 600
 ntattngcc 609

<210> 802
 <211> 960
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (31)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

539

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (956)

<223> n equals a,t,g, or c

<400> 802

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ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagct cttccacccc 120
tgccaggccc agcagccacc acagcgctcg cttcctcggc cctgaaatca tgcccctagg 180
tctcctgtgg ctgggcctag ccctgttggg ggctctgcat gcccaggccc aggactccac 240
ctcagacctg atcccagccc cacctctgag caaggctcct ctgcagcaga acttccagga 300
caaccaattc caggggaagt ggtatgtggt aggcctggca gggaatgcaa ttctcagaga 360
agacaaagac ccgcaaaaga tgtatgccac catctatgag ctgaaagaag acaagagcta 420
caatgtcacc tccgtcctgt ttaggaaaaa gaagtgtgac tactggatca ggacttttgt 480
tccaggttgc cagcccggcg agttcacgct gggcaacatt aagagttacc ctggattaac 540
gagttacctc gtccgagtgg tgagcaccaa ctacaaccag catgctatgg tgttcttcaa 600
gaaagtttct caaaacaggg agtacttcaa gatcacctc tacgggagaa ccaaggagct 660
gacttcggaa ctaaaggaga acttcatccg cttctccaaa tctctgggcc tccctgaaaa 720
ccacatcgtc ttccctgtcc caatcgacca gtgtatcgac ggctgagtgc acagggtgccg 780
ccagctgccg caccagcccc aacaccattg agggagctgg gagaccctcc ccacagtgcc 840
acccatgcag ctgctcccca ggccaccccg ctgatggagc cccaccttgt ctgctaaata 900
aacatgtgcc ctcaggaaaa aaaaaaaaaa aaaaaaaaaa aagggggggg ncccgnctcc 960
```

<210> 803

<211> 708

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<400> 803

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cgagattggt gttggctgaa catcttttaa ttctgagtta ccaacacggt gtgcgtgcat 60
tgatgacccg gcttcctggc ctgcccttgg tgctgagcc ccagtaatga ttgccctcta 120
tgttgggaga agaagggaga aagtagtaca agtagtgaag aaaaaaatgt aggtggtggt 180
ggtgggtgag agtacatggc acagaaaata aaggagccag gattacctgt gccttttggt 240
tctccttccc ctgctgcttt ttcttccttt ttccatgtca gtgcttggga accctcacia 300
ctggcaggta acggggtcgg gataaaatgt aaacctgtgg gtgtcttctg ctgagtcatt 360
aggatctttg tagcaggctg cggataaata tgtggatgac atggggcaac taagagcccc 420
ttttgcttgc cacctcccac ccctgctctg gatgggtgtc cctcttgcta gactgccggg 480
tacagatcac gtggcaatta aggcaaatgt taataaatac catgaaacag tggtttgcac 540
agtcttctga atagccatgg ctttggttar tcagcaacaa agcctttcac ccttaccctg 600
gataatcaag agttgacaac agccagaaag tactgggaat agtggctttt ggccatgaca 660
tttctcattc ttcattcatg taatgggtca antcagaagt aattctgg 708
```

<210> 804

540

<211> 588
 <212> DNA
 <213> Homo sapiens

<400> 804
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 tgtatagcca cacttattct catgcacatg taattttwaa ctgtratgga tagagtttgg 120
 cgttccaggg agcatcgata gcactgcatc atgaccttgc tcttggtgtg cttagagatc 180
 tgccgacagc cggctcagtt ccatcttcag tcattgtgtt gcacagtgat acgatcattg 240
 ctggtctaaa cattgccata aacatgtctg ttccccaagc tgaaaggggg tttctgattc 300
 taagggaaca aaagggttttc tggcttaaaa gacttaagac atagtcttat aatagcttct 360
 ttaaaaaattt cagtgggtta taatgcatag gggtttttaa aaagagcyaa tgtgcaatat 420
 atacaatagt ctatcctact gacccaactt ctcccttcca gttctcccta aggacaattg 480
 ttaatcagtt tctgtawac ccttccagaa atatatgcag awgtggcawa tgtccaatta 540
 aagaaacctg atacatactg ttaaaaaaaaa aaaaaaaaaa aaactcga 588

<210> 805
 <211> 684
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (611)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (644)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (679)
 <223> n equals a,t,g, or c

<400> 805
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 gaattatgac tattcatttg ttaaaaatac ctaagagcaa ttatagtggg acatctaagg 120
 tcctctgtaa acagtgaatt agcaaaccct agcctatgtg tttctaccct gatttttttc 180
 ttttcatggg tatctgaagc ctctaagttt tttcaaaaat ggagtatcac aaaattgagt 240
 gaaacacaat acttaatgta ttgtactaga ttgccaaatt cataaaatgt taatggaagc 300
 tttttgatgt gattataatg gcactattct ggtcattatc ctattttgat tttatttaat 360
 tttttaaagt tgaagaatta aatattttta tggttctaatt cttttgcatt ccattgttga 420
 ttaaacctgt ttatatgagt agtcttctgt tagaatcaca tctgtgcttt tcttgagtct 480
 gctgttgaac tattagatta agtcataatt cataaaattt tagtttaatg tgctctttgt 540
 aaaatgaaat tgtaaagaaa ataccagtgt ttctcatccc attgactcac accacgggtca 600
 tctgggattt ngggattccc tccakgcagc cagctawagt gggngtttcc caaaacaaca 660
 gggaatccct tcacccatng gggg 684

<210> 806

541

<211> 1204
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1033)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1050)
 <223> n equals a,t,g, or c

<400> 806
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 tcggcagagg cagwgccggc gtgggcccggc ggccgaggcg gaggcgcagg aaggggggckg 120
 cgagtcgtgc gaggtgccc ttctcactca gcattatgga tccaagcctg ttgagagaaa 180
 gggagctgtt caaaaaacga gctcttttcta ctctgtagt agaaaaacgt tcagcatctt 240
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 caggctctaa acaaaattct gatcatagca atggatcatt taacttgaaa gctttgtcag 360
 gaagctcttg atataagttt ggtgttcttg ctaagattgt gaattacatg aagacacggc 420
 atcagcgagg agatacgcat cctctaacct tagatgaaat tttggatgaa acacaacatt 480
 tagatattgg actcaagcag aaacaatggc taatgactga ggcttttagtc aacaatccca 540
 aaattgaagt aatagatggg aagtatgctt tcaagcccaa gtacaacgtg agagataaga 600
 aggccctact taggctctta gatcagcatg accagcgagg attaggagga attcttttag 660
 aagacataga agaagcactg cccaattccc agaaagctgt caaggctttg ggggaccaga 720
 tactatttgt aaatcgtccc gataagaaga aaatactttt cttcaatgat aagagctgtc 780
 agttttctgt ggatgaagaa tttcagaaac tgtggaggag tgtcactgta gattccatgg 840
 acgaggagaa aattgaagaa tatctgaagc gacagggtat ttcttccatg caggaatctg 900
 gaccaaagaa agtggccctt attcagagaa ggaaaaagcc tgcttcacag aaaaagcgac 960
 gctttaagac tcataacgaa cacttggctg gagtgtgtaa ggattactct gacattactt 1020
 ccagcaatag ggnacagttt tgccctggan cagagttaca gatacacawt caagagtgt 1080
 cttgctgatg ctsggggtct gaagactgtg ctcccaaccg cttcttgagg ctgaggagag 1140
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 ccat 1204

<210> 807
 <211> 1327
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

542

<400> 807

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acggtagttt tttgttttgg ctatactaag acttggaat tttctctcc agtgtcagcg 120
aatccagaag ggtatcagat taaacaccga attcagccac tggactttta aaagtactta 180
agatggttta tctcgggttt tttcttcagt taacaaaatc ataaatatgg tgccttataa 240
catgaaagga aaattagttg tgtatttcac gacgaaagcg acggaccaa agaaatttcc 300
tgcccaaga agcatgggat ccaggaagg ggcgtagat gcttaacggg ctcttcggaa 360
atcctgcaaa tagaaagata attctagatc cggaatacct gtatctggtg gaaacctagg 420
atctctacaa gctcgaatta ttcctcattg tatagcctgc tttgtaaact agtttacaat 480
ttgcaggctg atcttaagat tttttatat ctaattgctg ctgccttcat tttaggttca 540
gcagttactt ttaactacct taatttattg ccagaaggta tgagcctaac attctgatga 600
gtccagaaaa ctacgttttg tcagtagcaa tacactagga agtaaaatat atttagaatt 660
taaacattgt gtgccagtgg tcctcgcgct tgactgcaca tcagttactt gaagagccac 720
acctcagatc aatgcagtca gaacctggga agtaggtccc agacatcagg acctttttaa 780
agctcccaa gtgattctac gttccccaag tttgaggacc acttttctgt gcattggctt 840
gcacaatttg aaaataatgc ttttcctgag ctggatccca gtgttgccct aacagggtgt 900
ctgtcgtgcc gcagtagagc actgctgctt cctccaaccc caaaatttat gttcctaagt 960
aagtcaggtc cctaagcccc gtcccaagaa gtgacacaag tggccaacat ccacactgta 1020
ggcttgaggc ctaccgccc tgagatttgg taaagaacac tgccttggtc cccatcagta 1080
aacaaggtta cctacctcag gaggtgctt gtgagagagc aaatgcagta tcttcagaat 1140
gatttatatt ttaattaat tgtaaagact tgtgccattg gctgctcttt ctagtccct 1200
aaatttctgt tctagtttta aatttctcta gaacttgcaa tagttggggg ttttataatg 1260
atgttttaca atgtttattt cttaaataaa aacttaaaaa ttcaaaaaaa aaaaaaaaaa 1320
aaaaaaaaa 1327
```

<210> 808

<211> 685

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (651)

<223> n equals a,t,g, or c

543

<220>
<221> misc feature
<222> (652)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (679)
<223> n equals a,t,g, or c

<400> 808
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tgccagtaac tgggtgtctgg ttgattgctt gccactgcag gtgattctga attgctgtga 120
gggcagaaca cccaaggaga caatagaaaaa tttgttgac agaatgactg aagagaagac 180
gctgactgct gaggggttgg taaaactcct ccaggctgtg aagacgactt tcccaaacct 240
gggccttctg ctagagaagt tgcagaaatc agccactttg ccaagcacca caggctcatgg 300
agaagcttgt gaaacgtgac tctgggttcag gtgggttcaa ttctctgata tcagcagttc 360
tagaaaagca gactctctct gccacagcca tttggcaact gctgctggtg gttcaggaga 420
caaagacctg tccattggac ctgctcatgg aggaaatacg aaggagcctg gtgccgatgc 480
tttcttycgg gcagtgaacca ccccagaaca tgccacttta gaaacaatcc tgaggcataa 540
ccagttgatc ttggaggcca tccaacagaa gattgagtgc aagctcttta cctcgganga 600
ngagcacctg canaaactgt gaaagagatt ctgagcattc ctctgagaca nncagccctg 660
aaactttcct gaaaagcant gctga 685

<210> 809
<211> 857
<212> DNA
<213> Homo sapiens

<400> 809
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cagtgaagccg agatcgcgcc attgcactcc agcctggaca gcaagagcaa aactccgtct 120
caaaaaacaa aaacaaaaaac aaacaaaaaaa attcccctga gagaaaacct gtctttccag 180
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aaggcaacgc aggacctgca gactaaggct aacgaggctg attgcctgac aaaacagaaa 600
aaaaagaaac attcttcagg gaatttttagc agaacacaga gtctcccaac ataaaacaga 660
cagtcctcac tgcacagcag ttcagaactg taaaaatgac cttccaacct gaaactgcc 720
tgtgtgttgc ataatacatta atgggtaaaa ttgtgatttt tttcctgtct tttgaaaatt 780
gtcaaaacat tgataatctt gtactgttag aaatgtataa ggaaacaata aagtaaatat 840
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<210> 810
<211> 291
<212> DNA
<213> Homo sapiens

544

<220>
 <221> misc feature
 <222> (261)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (285)
 <223> n equals a,t,g, or c

<400> 810
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 ggtgtgggca tgctggattt tatatttcta aaaaccaata aaatttggaa ggcattgcct 120
 ctaaagtgtta cctaaaaaat agaaaaacaca accataaata tgcctagtaa ttagcacata 180
 ttttatttca tagaaactga ttcctggctg gacctgggtg ctcacacctg gtagtcccaa 240
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<210> 811
 <211> 965
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (168)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (965)
 <223> n equals a,t,g, or c

<400> 811
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 cttcaagact caagttcaaa atgccaggca ttggaagaaa acaatctntc tcttcgacat 180
 acactatcag acatggaata cagactaaaa gaactggaat attgnaaacg taatttagag 240
 caagagaatc aaaaccttag aatgcaggtt tctgagactt gcacaggccc aatgttgcag 300
 gctaaaatgg atgarattgg caaccactac acggagatgg taaaaaactt gagaatggag 360
 aaagatagag agatctgcag actgaggtcc caattaaacc agtaccataa agatgtttca 420
 aagagagaag gaagttgtag tgacttccaa ttttaagcttc atgaactgac aagcttgctg 480
 gaagagaagg attccctcat aaagcgtcag tcagaggaac tctccaagtt gcggcaagaa 540
 atatattcct ctcataacca accctccact ggtggaagga ctactattac cactaaaaag 600
 tacaggacac aatatccaat cctaggcctc ctatatgatg actacgaata tataccacca 660
 ggtagtgaac cacagactat tgtgattgag aaaacagaag acaatacac ttgtccatga 720
 atgggtccac tttaaagtat tacaactcaa agccgttttt tttgtgtgtg tgtgtctctg 780

545

```

cattagtact ttgttatttt tccatcacta aaggccaatc agaatttgga accatgctgc 840
taccaagaa atctaattgga atgaattagt tctgtagatg acaatttctt caccatttta 900
tgagacctaa atctttttcca taacactcat gtattcagta twacacatac taactggaag 960
agggn                                           965

```

```

<210> 812
<211> 1561
<212> DNA
<213> Homo sapiens

```

```

<400> 812
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ccatggctac cacttcgaca cagcctctcg taagaaagcc gtgggcaaca tctttgaaaa 180
cacagaccaa gaatcactag aaaggctctt cagaaactct ggagacaaga aagcagagga 240
gagagccaag atcatttttg ccatagatca agatgtggag gagaaaacgc gtgccctgat 300
ggccttgaag aagaggacaa aagacaagct tttccagttt ctgaaactgc ggaaatattc 360
catcaaagtt cactgaagag aagaggatgg ataaggacgt tatccaagaa tggacattca 420
aagaccaagt gagtttgtga gattctaaca gatgcagcat tttgctgcta ccttacaagc 480
ttctcttctg tcaggactcc agaggctgga aagggaccgg gactggaaag ggaccaggac 540
tgaacagact ggttacaaaag actccaaaca atttcatgcc ctgtgctgtt acagaggaga 600
acaaaatgct ttcagcaagg atttgaaaac tcttcgctcc ctgcaggaaa ggattgatgc 660
tgatagaaga gcctggacag atgtaatgag aactaaagaa aacagatggc tggagatgac 720
atztatccag ggtcactttg tcaggcccta ggacttaaat cgaagttgaa cttttttttt 780
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gagtagtttt atattaatta ccaaactttt tcaaaacaaa ttcttacgtc aaatatctgg 1500
gaagtttctc tgtcccaatc ttaaaatata aaatatagat atagaagttc aaaaaaaaaa 1560
a                                           1561

```

```

<210> 813
<211> 941
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature

```

546

<222> (11)

<223> n equals a,t,g, or c

<400> 813

```

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cgagacttcg gactgcag ttgcagttgt tccgtgtagg ctgttggtga ctctcgtagt 120
aaagcccacg cgatccaagt gccctgcagg ttttgggtcca gggaaaagtt ggtctctgca 180
gatgactgta aatgactacc tggaggtcga ttaaagtgcg gtactgcggg attcagccga 240
tttccttctt cctctgactg cccggaaata tcagccaaag gccagcggtc taaggacata 300
tggaaattggc tatggataat tcatatgctt tcaatcaacg aagcacatgt aatggaattc 360
catctgagaa gaaaaacaac ttccttgtat cagaagatca tggacaaaaa atcttaagt 420
tactacagaa ttttagagaa caaaatgtct tttatgattt caaaataatt atgaaagatg 480
aaataatccc gtgtcatcgt tgtgtgtagg cagcatgcag tgactttttc agggctatgt 540
ttgaagtaaa catgaaagaa agagatgatg gaagtgttac cattactaat ttgtcctcca 600
aggcagtaaa agcatttctc gattatgcct atactggaaa aacaaaaata acagatgata 660
atgtggaaat gttcttcag ttgtcatcat ttcttcaagt ttccttccta tccaaagctt 720
gcagtgcatt ttaataaaaa agtattaatc ttgtmaattg tttacagtta ttatctatat 780
cagatagcta tggctccacc agtttgtttg atcatgcatt acactttgta caacatcact 840
tttctttatt atttaaattc agtgatttct tagagatgaa ttttggagta ctacagaaat 900
gtctggaatc agatgaatta aatgttcctg aagaagaaaa a 941

```

<210> 814

<211> 3692

<212> DNA

<213> Homo sapiens

<400> 814

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gctcgtgccg aattcggcac gagagactga cgagtgcggt gtcgctccag ctacagagctc 60
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cgccggcgcg gcaccgagca gccgcggcg ccgagcagcc accgtcccga ccaagcgccg 180
gccctgcccc cagcggcagg atgaatgatt tcggaatcaa gaatatggac caggtagccc 240
ctgtggctaa cagttacaga gggacactca agcggccagcc agcctttgac acctttgatg 300
ggccctgtt tgctgttttt cttctcttaa atgaagagca aacactgcaa gaagtgccaa 360
caggcttggg ttccatttct catgactccg ccaactgtga attgcctttg ttaaccccg 420
gcagcaaggc tgtgatgagt caagccttaa aagctacctt cagtggcttc aaaaaggaac 480
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ggcttctctg ggccaccaat gagttcagtc tgggtgaaagt gaatctgcag aggttcggca 600
tgaatggcca gatgctgtgt aaccttggca aggaacgctt tctggagctg gcacctgact 660
ttgtgggtga cattctctgg gaacatctgg agcaaatgat caaagaaaac caagaaaaga 720
cagaagatca atatgaagaa aattcacacc tcacctcgt tcctcattgg attaacagca 780
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cagacaaatc ctgccagtca ttcacagct ggactggaga cggatgggag ttaagctcg 1380
ccgacccccg tgagggtggc cgccgggtgg gaaagaggaa aaataagccc aagatgaact 1440

```

547

```

acgagaagct gagccggggc ttacgctact attacgacaa gaacatcatc cacaagacgt 1500
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ccgaggaact gcacgccatc ctgggcgtcc agcccgacac ggaggactga ggtcgccggg 1620
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aggagcgagc atgtcgtgga cacacacaga ctatttttag attttctttt gccttttgca 1980
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atlttgttta tataaaaaaa aaaaaaaaaa at 3692

```

<210> 815

<211> 1427

<212> DNA

<213> Homo sapiens

<400> 815

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tcgacccacg cgtecgccca cggcgtccgc aaagcctgag tctgtcctt tctctctccc 60
cggacagcat gagtttcacc actcgctcca cttctccac caactaccgg tccctgggct 120
ctgtccaggc gccagctac ggcgcccggc cggtcagcag cgcggccagc gtctatgcag 180
gcgctggggg ctctggttcc cggatctccg tgtcccgctc caccagcttc aggggcggca 240
tggggtccgg gggcctggcc accgggatag ccgggggtct ggcaggaatg ggaggcatcc 300
agaacgagaa ggagaccatg caaagcctga acgaccgcct ggcctcttac ctggacagag 360

```

548

```

tgaggagcct ggagaccgag aaccggaggc tggagagcaa aatccgggag cacttgagaga 420
agaagggacc ccaggtcaga gactggagcc attacttcaa gatcatcgag gacctgaggg 480
ctcagatctt cgcaataact gtggacaatg cccgcacgt tctgcagatt gacaatgccc 540
gtcttgctgc tgatgacttt agagtcaagt atgagacaga gctggccatg cgccagtctg 600
tggagaacga catccatggg ctccgcaagg tcattgatga caccaatata acacgactgc 660
agctggagac agagatcgag gctctcaagg aggagctgct cttcatgaag aagaaccacg 720
aagaggaagt aaaaggccta caagcccaga ttgccagctc tgggttgacc gtggaggtag 780
atgccccaa atctcaggac ctgcgaaga tcatggcaga catccgggcc caatatgacg 840
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tgggtgtctga gaccaatgac accaaaagttc tgaggcatta agccagcaga agcagggtac 1380
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```

<210> 816

<211> 425

<212> DNA

<213> Homo sapiens

<400> 816

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aagctggtac gcctgcaggt accgggtccgg aattcccggg tcgaccacg cgtccgctga 60
tgacaagaac gatgaaaaat gcatgaaagt tgacttagta tcttttcac ttcacctatt 120
atggttgata atgatagctc tggtagaagt gataaggatc atagtgaat acttgatgga 180
attagtaaca taaaactgaa ttcagaggaa gtaacacaga gccattaga ttctgtaca 240
agtcgatgat gtcataca gctaagtga gttagtagca aaagagagt ccctgcttcc 300
ggccaaagtg aaccacgtaa tggaggaacc aatgaggaaa gcaactcatc ggggaatata 360
aacacagacc caccagctga ggattcacag aagtcttcag gagcraacca agcaaagaca 420
gacca 425

```

<210> 817

<211> 375

<212> DNA

<213> Homo sapiens

<400> 817

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gtaccgggtcc ggaattcccg ggtcgaccca cgcgtccggg gaggtctagg aagatcctga 60
cacataagaa ctttggttta gagagctttc caggtgtagt gccataaaa actgacctgg 120
aaagaaaacc tgcccagcac ggaacatgct ttctgaactc acttgagagt gtatggtgta 180
tgtcacttct catatattct tgagtttaga tttgtctttt atacaatttt tagctctttt 240
ccagttcact tgtgctcgtc tgtatattgg tattttttaa tttttgtggt aaataatgaa 300
aagagtgaaa ttatatttta taattactca tttgtagttt tttttttaat ttaataaact 360
tcctccaaaa agtgc 375

```

<210> 818

<211> 1216

<212> DNA

549

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1215)

<223> n equals a,t,g, or c

<400> 818

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gaaatctctg caggcaagtt gctccagagc atattgcagg acaagcctgt aacgaatagt 180
taaatccacg gcatctggat tcctaatacct tttccgaaat ggcagggtgtg agtgcctgta 240
taaaatattc tatgtttacc ttcaacttct tgttctggct atgtgggtatc ttgatcctag 300
cattagcaat atgggtacga gtaagcaatg actctcaagc aatttttggg tctgaagatg 360
taggctctag ctccctacgtt gctgtggaca tattgattgc tgtagggtgcc atcatcatga 420
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agttttaaag ctgcggtttg gtcaatggag ctgctgattg gggaaataat tttcaacact 720
atcctgaatt atgtgcctgt ctagataagc agagaccatg ccaaagctat aatggaaaac 780
aagtttacia agagacctgt atttctttca taaaagactt cttggcaaaa aatttgatta 840
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tggtcctgta ttgccagatc gggaacaaat gaatctgtgg atgcatcaac ctatcgtcag 960
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catattgaac acattttaaga tttgagggat ataagggaat atgatatgaa tgtgtatttt 1140
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ayccarctta ctnnnc 1216

```

<210> 819

<211> 1304

<212> DNA

<213> Homo sapiens

<400> 819

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aaaaaaaaaa aaaaaaaatc taagatagag gtttgggtcaa cagtgtctaa taataaataa 60
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attgatataa gcagtattaa cacagtataa agaattgttca ccttgcatat gtcatttcag 180
gcacatggat tcaggagaag cacagttgag tggaagaaat ggtagacttg tgaggcttgc 240
cccaggcctt gtgtacacgc aataagtggt gagccatggg tctctccgtc agcgcctccc 300

```

550

```

tccccgccac cacttcaggc caacaattta aggtgctgag ttgtaaggct cctccattgt 360
cagtacaggg ctgcgctttg tagccctgat cactaccagt acacttttca agacaactga 420
gtatttttgt atgcctttgc cttccctttg tccatgaaac atgaagagtt gtttatgggt 480
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ttggaagaaa gagaaaagt catctcgggt tgtgggttcc catccgcccc acatagcctc 840
tccttcttcg gaacaatggg cgtggggtag aaagctcttt cagtgaaggg tgttctagca 900
gctcagttaa cactttactc tccagtcaac acttgggaca tataaaaatg ccattgtaac 960
tactgtagag tcctgtgact catcgtttgt gtttgtcart ktgcagttca gcttagccct 1020
tccctgttcc tgtgtagtta caatctggcc ctgaagacat ccgaggcact tcagtaagtg 1080
ggatcttttc tagagatcct gggtgacttt ggggtgcacag ggtgaccgag catttctgcc 1140
cctgtgaatg tggcactaac actgtgcact gtctccacca agcaagggtt ccactgagtt 1200
tcttctcatg ttactgggtt tgtaaatgaa taaacacatt ttaactactc ttgcacggct 1260
gcttgtgaaa aaaaaaaga ataaaaaaa aaaagtttgt cgac 1304

```

<210> 820

<211> 994

<212> DNA

<213> Homo sapiens

<400> 820

```

gcggccgcag agactgggtc gccttggatt ccctctgcct ccgaggaccc caaaagacac 60
ccccaacccc aggccagccg gccctgctct ggcgcgcca aaatactacc tagcacaggc 120
ctctgctcga ggcaccccca aactacctat gtatccagcc ccagagggcc tccattccca 180
ggaagtccct atgtatccca acactggcag acaccagca ccacctccc agaccgcaa 240
gaaagtgaat ctactacta cctactcccc taaaactacc tattttgtgc tggctggctt 300
gcctgtacc tagtgccgac tgctcccagg caagtccct gctgcttaca gcccgcagct 360
tttgggggtc ctgaggctgc cctgagaatg tctgaggtc caggatcagg gtattggcat 420
ctatttataa cgaaaaataa tatatttatt ccaaaaagca tcctaagtgc ttgcacccta 480
gaatcaatcc ctcccttctt ggcttggcac ccacagctca ggcccatcaa cccccacttc 540
wggaggggaa tgttcctgag ctggctgcag atctgtgggt tagcttctgc ttagcaggac 600
tgtggagatg cttccagctt cgctgtcctt tccctgtggt cctgtatctt actgttcagc 660
tgtgttaaat atgtacgccc tgatgtttcc tataatagca gatactgtat atttgaacaa 720
gattttttwt tatcatttct atagtcttg agttcatttg taaggcagtg tcttgacttg 780
gaaaggatgt gttaatgggg tgactttgta gcatggatg ttgtcttgag ttaactgtag 840
tgggtgggga ggtccaatgc cctccgcaat gcccttcac tcctgtgttg tcctgtaccc 900
tgctcagctc catcctgggg ttcagggaag gcacacttcc cagcccagct gtgttttatg 960
taaccgaaaa taaagatgcg tggtgacaaa gaaa 994

```

<210> 821

<211> 498

<212> DNA

<213> Homo sapiens

<400> 821

```

caataggaac gtcaagtttt gcaaatcatc ctccagctgc aagacttttt ccagctaaca 60
aggaacgtga agaaatwcag acttttaaac agcaawtrgc agwtttacgg gaagatttga 120
aaagwawgga rwccaaatgg tcaagtacac acagccgtct cagaagccag atacaaatgt 180

```


551

```

tagtcagaga gaacacagac ytccgggaag aaataaaagt gatggaaaga ttccgactgg 240
atgcctggaa gagagcagaa gccatagaga gcagcctcga ggtggagaag aaggacaagc 300
ttgcgaacac atctgttcga tttcaaaaaca gtcagatttc ttcaggaacc caggtagaaa 360
aatacaagaa aaattatctt ccaatgcaag gtaagaggct gcatgatctt tttataaaac 420
atttcagaat gtaaggaata aacaatttat acccaactta ataaaacatt tcttaataaa 480
tgtttttgaa catttgaa 498

```

<210> 822

<211> 796

<212> DNA

<213> Homo sapiens

<400> 822

```

accatgatta cgccaagctc gaaattaacc ctactaaag ggaacaaaag ctggagctcc 60
accgcggtgg cggccgctct agaactagt gatcccccgg gctgcaggaa ttcsgcacgm 120
gggtcraggta atgaatacat acatttttct gtgataaaac tcttaaaagt taattttaat 180
gtattaatag tattcctaata gtgtgctgca gaaatggcta tgagcctctt aaatttacat 240
ttgcaactta aaggtagttt tagaagggaag tacaaattgg ctttcatctt gcaaacaatc 300
gttttttact tcattatctt aatttgcttt gtcactcata aaaaggaaac catacctgag 360
ttgtagacaa tgaggaaaca cttgaggctt ctgctgtgtg ttcttttgtt attgttggtt 420
ttgttggttac tcagtaactt gaatattgtt taatgtgttg taagacgtag agtttatctc 480
aagctgttaa aaatggtaat gtacaaatgt gaatagacac ttatctatat aatatgggta 540
agttttgttt cgcctataat agatgtttat aaaaacaagt gaggggacag ttggtctttt 600
tatcttttct ttctttttct ttcttttctt tttttctttt tttttttttt tttttttttt 660
gcttccacag gttgcactat tgaaaaatcg agattgtata aacctggtaa aaagctgcaa 720
gatgccaaaa tcttgtagat gtcaataaaa aagttattat actaaaaaaa aaaawaaaaa 780
aaaaaaaaaa aagcaa 796

```

<210> 823

<211> 503

<212> DNA

<213> Homo sapiens

<400> 823

```

aatcgctgaa ccaggagcgg agttgcagga ggagaytcac cactcacttc agcctggtga 60
cagrgggagc tctktcttaa aaaaaaaaaa aaaatcatct gtaaaataaa ttccgggata 120
gtcgttttgt tcaaggaaat gttttgtaaa ttgagctcac actatataat ctttattgtc 180
ctatcctgat gtataatata gcaggataaa ttacaccaag cgctatagtt ataaatatgg 240
catgaagtga actatggcct tttatttctt tccagtgtga acacagcagg tgtgagatgt 300
catcttggaa gacaggcctt gcagaaatag gcctacatcc aaaatattat cttgtgactc 360
catgaaccat tcattaaccc tttgtatctt tgagtgaaaa ttttactcaa aagttgcatc 420
tggaagtctg aagaaattac ttgaaataaa aataaagatt tctatataga taaaaaaaaa 480
aaaaaaaaatg cggccgcgaa ttc 503

```

<210> 824

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

552

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<400> 824

```

gctggcncgc ctgcaggtac cggtcgggaa ttcccgggtc gacccacgcg tccgtttgaa 60
tcctttatta tttttaattt tagaaatata acagttcaca tkgcaatatt ccctttaatt 120
tactattttt aaaggggtat tgtaaatatg aaagtattta taaagtgaat tgctattttt 180
tctgttcaga aaagtacaca cttaaaattg ttattgttaa caatgtgtaa acacatttaa 240
aattgttatt gttaacaaag aaatcatgga gaactgtaga ggttttcaca gtggatccat 300
tttctgacag ttttctacta tctattaaat catatctgct taaatatata gcttctatct 360
gtcttttaaat cttctcatta aaatgtataa gcagtgaytt tgatctcaaa aataggtaat 420
tttcttttgc cgacctgtaa aagtgtgcca atacactaaa tttgtgattt taaattaatt 480
cctccagctg ttgaaatgaa gtctgccaaa tcttgctcta acaaataaaa tgttatyttaa 540
atgaaaaaaaa aaaangcgcn ttaagaccan tactcctctc acgctctt 588

```

<210> 825

<211> 965

<212> DNA

<213> Homo sapiens

<400> 825

```

tgtttttatt tttaaactat caatgttggt taaaataatc atgtacttgt tgagttcctg 60
aggtttgga caaattacac ataaaaattt gaatacttta tttctgaaaa gcatatacat 120
atatgttatg tttatttttc cttgttgatt agaaagggtg tggaatatgt gacaatgcaa 180
aatkaattga taatttttct gtatttttgag tgaaagttgt ctgtaatatg tcaagcaaga 240
atgttataat tctacagtaa tgtgtgactt catgacagag ctacattctg agaaatttgt 300
cattaggtga tttcatcatt gtgtgaacat catgaagtgt acttacacaa acctagggtg 360
tagagcctac tgcacacctg ggctagatgg caaagtctgt cgcttctggg ctacagacct 420
gtacagcatg gtactgtatt gaatactgta ggcaactgta acacaatggg atctgtgttaa 480
tctaaacata gaacagataa tacattgtgc tacaatgtaa caatggctgt ggcatcacta 540
gggtgatagga atttttcagt tccattataa tcttatagga tctctgtcat atgtgggtcaa 600
ttgttgatcg aaacatgact gtatgtcgta ttttcagaaa atggaatagg taatcatcac 660
ttgtgtgaat tttaatcaaa tgacttagga aagaaactgg atgtttcaaa agctgttgca 720
tttattacaa atgtcacaaa tacagctctt gccttttgag aatgttgagg agatgtcttt 780
aaaaaatatg tttgtgtgta aaaatgtgtc tgtatgcaat agctagaaaa atgcctgtgt 840
cttaagtcat tactcatggt ctaatttttg ttctttgtac tatttatctg tatgcttggt 900

```

553

cttcagtatt tcagactcaa aataaattta tttttttatg ttataaaaaa aaaaaaaaaa 960
 aaaaa 965

<210> 826
 <211> 454
 <212> DNA
 <213> Homo sapiens

<400> 826
 agtggcaggt gtgtggccct gccctggccc cgtagttagt gtggggccca cctgtgccct 60
 catgggcagc tgaaggggga gctttctacc ccaggttcct ttccttactg aaaagtcttg 120
 agcaaacagt tgccgctctc cccccctgc tttttaaaaa aaatttttct tcacgtaaga 180
 aaatgttatc tgtgtgctgg ggaaaatttt gaaaataaca aaaaccagaa tacaaacacc 240
 cataatcaat cacagagata accactgttc ataattcctt ccagtcttct tacttggcac 300
 atatacatct gtctttcttt atatatgaca tatggatatt ttacaaagt aggatcctac 360
 tctatgcact gcttgggtgat cggatctatt caatgtacaa aatattttga aagtttctgt 420
 gattaaatgt tctttgaaaa cataaaaaaa aaaa 454

<210> 827
 <211> 754
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (83)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (502)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (752)
 <223> n equals a,t,g, or c

<400> 827
 actatagggg aagctggtac gcctgcaggt accgggtccg aattcccggg tcgacccacg 60
 cgtccgggtct ttggattcta atnaactcag catcaatttc tcacctcaga ctacagtga 120
 tttttatttc ctatcagctg aaatatttca cagatggaag ctcatgtttc agttttaatg 180
 actgccttga ataaacaagt tgttgccact tgtttcaaac aaaagcctaa aaataatcta 240
 cattcaatct taggctccat tgactaatat ggtgttgctt ttggaagtac tgtatatcct 300
 cacatggaag ccaaattgtt aaattatttg aaggacacac cactgtacag aaagtagtgt 360
 ttcaaataata aatcgaagaa caaagagtgc tccaaaaaat aggtcattct tttattttca 420
 taaagtatct aaactgtact aacattcagt gttgtgtttc attctaaatt tgcagctgaa 480
 ataaatttat ttgcgatarg anaatatctt attattcatc ctcagaaata aaggatttga 540
 agggatagag atttatatgat aaatttatag aagactttca gaatttgaat gcattttgtt 600
 tagtgttatg aaatgacaat agggaaaaag tctcgacttc aatttaaaag ttacacaaac 660
 aaacaaatct acaggcmtgt ctttatatac cctcagggtc ttaggttttc caaaggaaat 720

554

ttgttgggat ataacttggc gggtaactc cntt

754

<210> 828

<211> 1437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1433)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1435)

<223> n equals a,t,g, or c

<400> 828

```

aaggggagat catctgagtc caccacaccc ttgaatgttt cccgcgagac tcttcagcaa 60
cataaactgc ttaaggtgat taggaagaag cttgttcgta aaacgctgga catgatcaag 120
aagattgctg atgataaata caatgatact ttttggaag aatttggtac caacatcaag 180
cttgggtgtga ttgaagacca ctcgaatcga acacgtcttg cttaaacttct taggttccag 240
tcttctcatc atccaactga cattactagc ctgaccagt atgtggaaag aatgaaggaa 300
aaacaagaca' aaatctactt catggctggg tccagcagaa aagaggctga atcttctcca 360
tttgttgagc gacttctgaa aaagggctat gaagttattt acctcacaga acctgtggat 420
gaatactgta ttcaggccct tcccgaattt gatgggaaga ggttccagaa tgttgccaag 480
gaaggagtga agttc gatga aagtgaagaaa actaaggaga gtcgtgaagc agttgagaaa 540
gaatttgagc ctctgctgaa ttggatgaaa gataaagccc ttaaggacaa gattgaaaag 600
gctgtgggtgt ctcagcgctt gacagaatct ccggtgtgctt tgggtggccag ccagtacgga 660
tggctctggca acatgggagag aatcatgaaa gcacaagcgt accaaacggg caaggacatc 720
tctacaaaatt actatgagag tcagaagaaa acatttgaaa ttaatcccag acaccgctg 780
atcagagaca tgcttcgacg aattaaggaa gatgaagatg ataaaacagt tttggatctt 840
gctgtggttt tgtttgaaac agcaacgctt cggctcagggt atcttttacc agacactaaa 900
gcatatggag atagaataga aagaatgctt cgcctcagtt tgaacattga ccctgatgca 960
aaggtggaag aagagcccga agaagaacct gaagagacag cagaagacac aacagaagac 1020
acagagcaag acgaagatga agaaatggat gtgggaacag atgaagaaga agaaacagca 1080
aaggaatcta cagctgaaaa agatgaattg taaattatac tctcaccatt tggatcctgt 1140
gtggagaggg aatgtgaaat ttacatcatt tctttttggg agagacttgt tttggatgcc 1200
ccctaattccc cttctccctt gcaactgtaaa atgtgggatt atgggtcaca ggaaaaagt 1260
ggtttttttag ttgaattttt tttaacattc ctcatgaatg taaatttgta ctatttaact 1320
gactattctt gatgtaaaaat cttgtcatgt gtataaaaaat aaaaaagatc ccaaataaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aananaa 1437

```

<210> 829

<211> 973

<212> DNA

<213> Homo sapiens

<400> 829

```

gtgaaacaac aacaacaaca acaaaatgta gtcttaggaa gcagcaagtt cactgacttg 60
ggatctttat gacagttttg ttgttgccat tgatattgtt ttgtttattt tttgttttca 120

```

555

```

gatgagaaag ttttctacat gttatctttt ttctaggagc tcaaagtgta catcattcct 180
ttattatagc taggtttact gactcatata ctaaggaagt agctaaaatt ataaaaataa 240
tttggtttta aaaccatatt taactaaggg aactaagtaa gttccaatga gcagtgggtct 300
catgcragggt attttcaata ttttaaaaatt tacagatgaa tatttaataa tattataaaa 360
gtttttaatca gctatctcta agaaaataca tttcttaaag ggaaatgaaa ttcacttgac 420
tttaataaaa acaaatgaac tcatttcatg tttttaacta ttatctaact cttccttact 480
ttatgrtgct ggcaagctgt tgagagcctt gacatctcca tctgcagaaa aatcacagtc 540
ttagaaatcc tattaatcgt gtgaggtagc tgggtcatag tagcagcttc atgcagtgtt 600
aaaattatat gatgattata tgcagtaaca gatgaagaaa aaaagaaaga aagcaggaga 660
aatgcaccac ctcatcattt gtaaatgcag tatagttgat tttttaattt gttttatgtc 720
ctctagtgat ctaagcatga agcttgaatt attataataa agaaaataaa tgcaatgcag 780
ttgggggatgg caaatgttaa tgcttatctg tatcaaagac taacactgtc ttcaggatta 840
tccttggtgg attatccttg gcagacactt aatgagcaga gagaagctac aatgttgaag 900
gacaaaagtc ctttgtcatc ttattatcga aataatgttt aatacaataa aactttttta 960
attaaaaaaaa aaa 973

```

<210> 830

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (789)

<223> n equals a,t,g, or c

<400> 830

```

gccattcttg aggaaatata gagatgacat gttttcaccc caactatctg gtgctattga 60
atgactaatt cagtccttaa agttctgtga aaacacaaaa gtctaagat ttgagtgagt 120
aaaaggtaat ggtgcatttg aacaagtaaa tgctgtcgtg gtcagcaaga tccgkgattt 180
gaacatgtga tgactggaaa aaggtttggg ttatttggaa ctctggctaa aacttctttc 240
gggtgacatg tgatcgttta aatggcatta agtgaataaa gcacacagac agtgctactc 300
ttgaccacta ttttaccatt tctttgcaaa cagtgttcac attttcatat tttttcccta 360
actaaaccac caaagaaaaga cattttgtat gtatatacag tgtgtgtgta tacaaaatca 420
tgatatagta gaatgcaact actttctttt tctaccaaac gaaaggtttt atttgctgtg 480
aaataaacca gaagttaaaa aaacctgtga gtgattaagc atacttaacc actccttatt 540
tgtagattca ctttcaacct taaaaattaa taccagtttg cataaaccaa tatctgaaaa 600
gaacaggaaa tgtaaatgnc aagcaacagc tattaatact gatgtgaatg gatgcatttg 660
ttttgcagtg gtgactggcc taggcaggtt tgggatctgt gaaagaattg attcattttc 720
aaaattattc cataaagtta aaaagttaca ctttaaaggc aacagggtcat acagttcttt 780
aaaatctgna tccaactgta gctttattta aaag 814

```

<210> 831

<211> 611

<212> DNA

<213> Homo sapiens

556

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<400> 831

```
gcggaaatat tccatcagct tttcaaagcg gtgctgctcc ccacacacct gggtaagggg 60
aatggctctc actgaggccc agtgacacac gtcctaagct accttctggc tgccacacct 120
gtgcttcaac aggtctctct ccagttaatt ctaagttgag ccacgtcact cttctgctca 180
naacctccac tccctctcaa tctccactc tccctcactt tttccactct ggccacactg 240
gcatectggc acattccmac ccmagggcct ttgcacttac tgttccaact ccctggagtg 300
ccctcactcc cacaccaagt cccttgcttc cttcacagct ttgctgaaat ctcacttgct 360
cagtgaggcc ttccctgacc accctgcaac caattccccc tccctctgca acattgctgg 420
cttttttctc ayagcattta tcatttccta acatactatg taatttgctt gtttattata 480
tcgtttctgt ctttccctat atggtttcct ttgttcaact atgtgcccaa gtgccctgtt 540
cctgacacat agtaggcact caataaatat tcattaaagg aatgaatgaa tgaaaaaaaa 600
aaaaaaaaaa a 611
```

<210> 832

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 832

```
ccaatttnca caggaaacag ctatgaccat gattacgcca agctcgaaat taacctcac 60
taaaggggaac aaaagctgga gctccaccgc ggtggcggcc gctctagaac tagtggatcc 120
cccgggctgc aggaattcct tttttttttt tttctgagac agggctctac tctgttgccc 180
tggtctggagt gcagtgggtc aatctcagct cactgcagcc ttgagtcagg ctcagggtgat 240
tctctcacct cagcctccca agtagctggg accacaggcc cacaccacca agcccagcta 300
attttttgta tttttaagta gagacgggtt tcatcatgtt atgcaggctg ctctcaaact 360
cttgagctca agcgatctgc tggcctcagc ctcccaaagt tgggattata ggcgtgagct 420
accagatttt ttcttattaa tctaataatt ctttgtatag tcttgatatt atccataayg 480
tgtattgcaa atatcttctc taactctggc tttgactggg tatgggtgtc tttttttttg 540
gggggggggtt tttgaaacag ggcttgctct gtaccagct ggagtgtg 588
```

<210> 833

<211> 436

<212> DNA

<213> Homo sapiens

<400> 833

```
gtgagaagcc attctcttct tttactagta tgaagtcac agacgtcttc tccagcaaag 60
gaatgacacg ctgggggggaa tttgacgac tctatcgat tagtgagctg gacaggaccc 120
agattcctat gtctgaaaaa aggaattccc aggaagacta tttatcttat cacagcaaca 180
ccctgaagcc acatgcaaag gatgaaccag actccccagt gctctataga accatgagtg 240
```

557

```

aagcagctct ggtgagaaaa aggatgaagc ctctgatgat ggacagaama gaaagacaga 300
aaaatagagc ctctattaat ggacacttct ataaccatga aacatcaatt ttcattccag 360
cctttgaatc asaaactaag gtcagagtam acagtamcat gagaactgaa gaagtaataa 420
agcaacttct ccaaaa 436

```

```

<210> 834
<211> 1090
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

```

```

<400> 834
aattcggcac gagcctgcct tggcctttca aagtgcctggg attacaggca tgagccaccg 60
cacctgggcc ttctaacgtt ttttcatcat agtcccaaaa accaatactt tacaagtggg 120
tttggaagg caccactttt gtggcatgtt ctggttggga gagggagtca cagttcctac 180
tcnccccacc agctatgctt ctgctctgag aagggtggta tttatacaaa catggacata 240
ctcactccca agggctgatg agatgctgaa ttttcttttg gggcattcat taattgtccc 300
agctgcagcg actggagcaa gtctggaagc tgcctgtgct aagaccaccc agctgtccct 360
gggttctcat cctagggcct tctttgcttc cagggtcaggg gacctgcttc aatgagaaaag 420
caactgaatt gaggctagga gaggtaggga gagctgagtt ctgacttcac ctgtgcagaa 480
ctctctgccc ccatgttacc tggactggaa cagactgtga atatagcaga aggttccaag 540
aactctggtg tctgacctag aagaggcaca gttctctcta ctggaaagaa aacgatgtag 600
ccgattgcac aagggtgcca agggaagacc caggatggcc catcaaagga acctggggga 660
ggatgcagga ggctgaaggg atgcacctgg catttctctc actgtgctct taccgcatca 720
gcaacccccca actttttgggc ctactctgcc ccccatgcgt gaataccctg cttggatgct 780
gtgcttttcc ggtttgtctc taagccccct tctccagggc atgttggttt ccctggcctc 840
tcagtgtcct aactggagcc cagagtgcct tgttctgagc caggagacgg ctgagcactg 900
gccctccaca cctaagcgtc ctttacatta acttattggg cttgtataac acctggtgcc 960
attgccaagt ggctgtgtcc tcagctacag agctggaatt gtgtgggggt tagtgctaaa 1020
tacttcaata aagtctgttt tttgtgattg gctgaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa 1090

```

```

<210> 835
<211> 960
<212> DNA
<213> Homo sapiens

```

```

<400> 835
gggcactttg ggggcggtgg aattcaagac gctctggctg aagattcaga agtatctggt 60
aactctcttt tccttctggg catcctctcc tctgttctaa tcctccctta cactcattcc 120
tggtccattg tattctgacc acatccttaw tcatgggtcaa aactattgag tcctgggcac 180
attggtcatg aaggaacaag aaggcaatga gagactctca tgccaaccac tgccctgaaa 240

```

558

```

gccctgctgt tcagacagca aagggggccag cactggccaa gctcttatgc ttgctctgaa 300
accttcttgg gaggagtcaa taggggtctcc ttttgaaagt gtccctggcc ttttgagaaa 360
gcagtgtggt ggaggagat gggtctggca ggggcgtgaa tgggtgtttt ctacttgggga 420
tttctttcct gctttaggag atctattggg aaactgatta taaccactcg ggcaccatcg 480
atgcccacga gatgaggaca gccctcagga aggcaggttt caccctcaac agccagggtgc 540
agcagaccat tgccctgcgg tatgctgca gcaagctygg catcaacttt gacagcttcg 600
tggtctgtat gatccgcctg gagaccctct tcaaactatt cagccttctg gacgaagaca 660
aggatggcat gggttcagctc tctctggccg agtggtgtgt ctgctgtgtg gtctgacctg 720
gggtttcgga catcagtgac actccctgcc cactgcttg cttctgttca ccccttctct 780
acaattttgt gaacatttat gctccagtgg cattcactgg ttgttcatac ctttcttgcc 840
ctgggtctat ttcagcagca ctgagctatg agctatgtaa gccgacctgg tggggccagt 900
ggagggaag caatcaatta aagttgtgag ccagaawaaa aaaaaaaaaa aaaaaaaaaa 960

```

<210> 836

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<400> 836

```

ggtgagccct gccacagacc tgtgtgacag cagagctggt tggctgctgt atgagtgtca 60
ccggccctgc atttttttct tttttaataa agacagagtc ttgctgtgtt acccaggctg 120
gcctccagtt cctgggggct caagtgatec tcacacctcg gcctcctgag tgggttcagac 180
tgcaggtaga caccaacacg cctggctaatt tttaaatttt ttgtaaagtg ggggtctcac 240
tgtgtcactc aggctgggtc caaactcctg ggctcaaaca atccaccgcg ctcggccagc 300
actttgagag gccgacatgg gtggatcacg aggttaagag attgagacca tcctggccaa 360
catggtaaaa ccctgtctct actaaaaata ccaaaattag ctggacgtgg tgggtgggcg 420
ctgtagtccc agctactcag ganggtgagg 450

```

<210> 837

<211> 1144

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1123)

<223> n equals a,t,g, or c

<400> 837

```

cgcccacgcg tccgagaaaa tctgcctctg tggcaacata tttccttcca ggcgttacct 60
cctgagctta ggaacaaaac tgtccatgag gtcaccacag taggcactgc agaattgcagg 120
aaatggctga gcaggagtcg tactttggga gaactagaat ctctgaacac agtactgtct 180
gctttgcttg cagtatgtaa ttctgctggt gaagctttgg atacaggaaa acaaactgca 240
attatcgaag ttgtgagtca gctttgggct tttttaaaca ttaaacaggt agcagatcaa 300
ccttatgttc aacagacatt cagcctttta cttccactgt tgggattttt cattcaaact 360
ctagatccta aactgatact tcaggcagta actttgcaga cctcgctact taaattagag 420

```


559

```

cttcctgact atgttcgttt ggcaatgttg gattttgtat cttcttttagg aaaacttttt 480
atacctgaag ctatccagga cagaattctg cccaacctgt cctgtatgtt tgccttactg 540
ctagctgaca ggagttggct gctagaacaa cataccttgg aggcgtttac tcagttcgct 600
gagggaaacaa atcatgaaga gatagttcca cagtgtctca gttctgaaga aactaagaac 660
aaagttgtat cttttctgga gaagactggg tttgtagatg aaactgaagc tgccaaagtg 720
gaacgtgtga aacaggaaaa aggtattttc tgggaaccct ttgctaagt gactgtagaa 780
gaagcaaaaga gggtcatcttt acagccttat gcaaaaagag ctgctcagga gttcccttgg 840
gaagaagagt acagggtcagc gctgcataca atagcagggg ctttggaagc aactgagtca 900
ctactccaaa agggctcctgc tccagcctgg ctttcaatgg aaatggaggc gctccaagaa 960
aggatggata agctaaaaacg ttacatacat actctagggt gaaacttata actaggcaga 1020
actgggtttg atgctttgtc aactgaaaat acttatgtct gtacattttc taacagatat 1080
aaaacaaatt ttgtaaagt raaaaaaaaa aaaaaaaaaa ttntctcggt cgcgaagggg 1140
attc 1144

```

<210> 838

<211> 274

<212> DNA

<213> Homo sapiens

<400> 838

```

gggagcagca gctgaggcgg ggtggacgtg tgggggggtca accttatgtt tggagcactc 60
aaagaccagc catccctatc tctgtgctcc ttagcatttc ctacagaggat ctaagcgaaa 120
acagagcggg catgagaagt cagacctagg actcccaggc tgtttaccag aaatgcattt 180
catttagaag agcctgtctt agctttgttt gggtaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 274

```

<210> 839

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

560

<400> 839

```

ggaaaaaaac agaaagggac aggtgggtga ggtacaagat gaagcaccac ttttgtgaaa 60
gtggttgaag ttgacaagga catgagggag gctgtgaaga tcaatgtcaa gtgtacgata 120
accagggctc ctcttgaaaa atccaagggg attggccggg catggtggct caagcctgta 180
atcccagtac tttgggagggc caaggagggc ggataacctg aggttaggag ttcgagacca 240
gcctggccaa catggtgaaa ccccatctct actaaaaatg caaaaattag ccatgtgtgg 300
tgctatgccc ctgtagttcc agctactctg gaggtgagg caggagaatc gcttgaaccc 360
aggagggcga ggttgtggtg agccaagatt gcaccactgc actccaacct ggcaacagag 420
caagactctg tctcaaaaaa aaaaaaannn an 452

```

<210> 840

<211> 489

<212> DNA

<213> Homo sapiens

<400> 840

```

aaattatata ttgataagta aatggcttgt tgcatatacc aactttagaa tttattaact 60
ctaaagtttt tattgggttaa agccaaataa aataatataa gtcataattt ttttagattt 120
ttcatgtcct aaaatgaaca tagttgtata ctttatctca ctaggataat ttttatcttt 180
gcctatatgt gctgctggac cttgtaaaaa tatgtatact ttctagattt gtggtagaaa 240
tttagctata gaatcattta atttgcaaac tggaatgggc attagagaat catacagttt 300
ttctttctca ttttaccggt aaaatcactg atgtctcaat ttgtgactaa tttcctaaag 360
gttgcaaagc tgrgtagata gagctagaac taaatctaga tcttttgtct tcttggtaac 420
tgataatgac atattttattc cattgattct atgacatgga cgaataaaag ctgcttaagg 480
ccaggcgag 489

```

<210> 841

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

561

<400> 841
gacttcactc aaaaagtgcga gaattcacat tcttttcagg aacacatgga acattttatat 60
gtgggtgggac ataaaaactaa tcttaataaa tctgaaacta ttttgatcac ataaagttct 120
ttcattataa agaaattcaa ttgtaaaccc aaaccagaag atatatagaa acacccataa 180
tattttggaaa tgaaacagca cactttctaaa tatcccatga atcaaagaaa aacaatcaga 240
agggaaacta ggaagatttt gaaatgaatg aaaatcaaaa tacaacacat caacattttat 300
gagatgcagc taaagcagta ctgagatgaa atttttatagc actgagcagc tatattatta 360
aagaagacaa gcctcaatga tctttctggc tcaagaaaag ggaaaaagaa gggcaaacna 420
aactnaaggt aagcagaaga agaaagaaaa agtcngaaag antt 464

<210> 842
<211> 412
<212> DNA
<213> Homo sapiens

<400> 842
cctggcccgt gtcttcatcg gcatcaacga cctggagaag gagggcgcct tcgtgtactc 60
tgaccactcc cccatgcgga ccttcaacaa gtggcgcagg ktgagcccaa caatgcctac 120
gacgaggagg actgcgtgga gatggtggcc tcgggcggct ggaacgacgt ggcctgccac 180
accaccatgt acttcatgtg tgagtttgac aaggagaaca tgtgagcctc aggctggggc 240
tgcccattkg gggccccaca tgttccctgc caggtttggg cagggacaga gccagacca 300
ttgtgccagc caggagggt gtccctttgt taagggtgga ggctcactta gtagagggt 360
gtgttctaaa ctgagaaatg gcctatgctt aaggaggaaa ttgaaagttt ct 412

<210> 843
<211> 565
<212> DNA
<213> Homo sapiens

<400> 843
gaaaaaaaaat gctaattgtga gaatataaat tgtgggaaat gagtgagggc aagggtggtac 60
ttctctcttc tgagctcttc acacgtaatg caaaaacccg gtcttaattg attttgtttt 120
ttttctgagt atgcatatat gtggttgaat gaaccaatgt gtgattgtat cttttccatt 180
atgtgactgt ttgacctgca tattaatttc aagatagcag tcaattcgat aaggcatttt 240
catagaggaa agtttacaga aacagtttat rtggttgga caccaaatta tcttaggtac 300
taaggcctca aaaataagaa aaactttatt atttctctc agtagagttt ggacatacat 360
aaggagagaa ggtacagtga tgaaggagac cataattctg tagtgttgat gatcctggat 420
tataatcttt ttctctttat ctttcatagt ttttttaaaa acatggactg tatcttatct 480
accactatat cccaaatacc taagatagtg cttacgttca gtgactatta aataaataaa 540
tggatgaatt aaaaagtaaa aaaaa 565

<210> 844
<211> 571
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (254)
<223> n equals a,t,g, or c

562

<220>
 <221> misc feature
 <222> (491)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (534)
 <223> n equals a,t,g, or c

<400> 844
 agcagaacaa cacagtcctg gtggaaggct gcttctgtcc tgagggcacc atgaactacg 60
 ctctctggctt tgatgtctgc gtgaagacct gcggctgtkt gggacctgac aatgtgccca 120
 gagagtttgg ggagcacttc gagttcgact gcaagaactg tgtctgcctg gaggggtggaa 180
 gtggcatcat ctgccaaccc aagaggtgca gccagaagcc cgttaccacac tgcgtggaag 240
 acggcaccta cctngccacg gaggtcaacc ctgccgacac ctgctgcaac wttaccgtyt 300
 gcaagtgccca acaccagcct gtgcaaagag aagccctccg tgtgcccgtt gggaattcga 360
 agtgggaagag caagatgggtg cctggtaagt gctgtccytt ctactgggtg gaagtccaag 420
 ggggtgtgtg ttcacgggga atgctgagta ccagcccgtt tcttccagtt tattcctcca 480
 agtggccagg ncttgctgtg nccaagggac aagggtgggac aacaacaacc ctgnttcaac 540
 gttcattggc ctggcaaccc acggggggggg g 571

<210> 845
 <211> 678
 <212> DNA
 <213> Homo sapiens

<400> 845
 gggaagcttc cagcccaaca ttttctaaag aaccaatgaa agtgcaagac agtgatttga 60
 tcaaagcaga taacactata gaagggtgaca ataatgagca aaattatata aaggatgtga 120
 aactagagga ccattcttta gctgggtcat gcttaaagca gagtagtaaa aacattttta 180
 ctgaaagagc tgaagatcaa attaaaataa gtacaaggaa gcagaagtct gtaaaagaga 240
 tctcttcata tacaccaaag gactgtactt caagaaatgg tccagaaagg ggatgtgaca 300
 gaggaataat agtatcaaca cgtttgttga ctgattctag cactgatgct ttggaaaaag 360
 tgtccacatc gaatgaagat ttctctttta aggatgatgc tcttgctaaa acctcaaaac 420
 gaaaaactaa ggtacagaaa gatgaaatct gtgcaaagtt atcacatgta ataaaraagc 480
 aacacaggaa gagtactttg gtcgataata ctatcaattt agatgaaaat ttgactgtat 540
 ctaacattga gagtttctat tcaaggaaag atacaggagt tcagaaagga gatgggttca 600
 tacacaatct ttcttttagac cctagtgggtg ttctggatga taagaatgga gaacaaaaat 660
 ctcaaaacaa tgtattgc 678

<210> 846
 <211> 352
 <212> DNA
 <213> Homo sapiens

563

<220>
 <221> misc feature
 <222> (211)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (314)
 <223> n equals a,t,g, or c

<400> 846
 ggaaagattt aaggaaagaa aactttttcga tttcctttga aaaatagaac acaaaactgg 60
 cttgtaaatg tttttagaat gatgaataag tcattaatta attcagtgac gtatgttttc 120
 taggatccct ctggctgttg tgctgagaac agaaggggtc aaggggagtgg gggagtaaaa 180
 atggaagcag ggtgcgcatg cggagtcaga naaaatgggtg tttnttaggt ggacacaagg 240
 aaggaagagt gattgatttt tgagaagcta aaattgtgtg gtaagtggat agtagcaaat 300
 atcccagttt gctncatgaa gcaatacata tgttgaaacg gaaacgttgc ta 352

<210> 847
 <211> 890
 <212> DNA
 <213> Homo sapiens

<400> 847
 ctcttttgca gcttgtgatt tcttccagct tgggaggggc tgctggaagt ggcatttcgt 60
 tcagagctga ctttcagtgac acccaaactg gatgacgtgc caatgtccat ttgccttatg 120
 ctttgtggag ctgattagga tgggatttga ggtgataatc cagtaagtct ttcctcgttc 180
 ctacttgtgg aggatcagta gctgttatga tgccagacca tttggagaag tatcagaggc 240
 ctgaccggac acataatacg acaaccacat ttttctcat catccatgag gaaatggatg 300
 atttctcttt tccatatgtc actgggggaa aggctgcctg tacctctcaa gctttgcatt 360
 ttactggaaa ctgaggcgctc aagatggctg tggcagctag caaaagcaaa gatgctttgt 420
 gcatagcctt gtgaaaaagt atctttctat gcaataagat gaattttcct cccagaatat 480
 ttagaaatgt agaagggata acagttcaca gccaggtaaa atttaactgg tggcttaatg 540
 actctgcacc tttttctcag gaattctgcc taagttgtct gccttttcta ccacaaaaaa 600
 gacttttagt tttctatgct ttctcctgaa ttttggtagg gtaaggattt tctatgtcaa 660
 agcacagcct tgatgatctc agggaaaaat tttaatcact gtgtataatg atactgaacc 720
 ttgattaata acagaaattc aggatgtaaa gccacagaat gggatttatt aatgtgggat 780
 acctcagact gtttgttttc tttctgggaa gaaaagtgtg ttctataatg aataaatata 840
 gagtggtttt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 890

<210> 848
 <211> 591
 <212> DNA
 <213> Homo sapiens

<220>

564

<221> misc feature
 <222> (132)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (542)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (550)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (579)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (590)
 <223> n equals a,t,g, or c

<400> 848
 cgccgtgtcc aacaggagat cgacgacgtg atagggcagg tgcggcgacc agagatgggt 60
 gaccaggctc acatgcccta caccactgcc gtgattcatg aggtgcagcg ctttggggac 120
 atcgtccctt gnggtgtgac ccatatgaca tcccgtgaca tcgaagtaca gggcttccgc 180
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 aagccggagg ccttctctgc tttctcagca ggccgcctgt catgcctcgg ggagcccctg 360
 gcccgcatgg agctcttctt cttcttcacc tccctgctgc agcacttcag cttctcgggt 420
 cccactggac agccccggcc cagccaccat ggtgtctttg ctttctcgtt gagcccatcc 480
 ccctatgagc tttgtgctgt gcccgtaga atggggtagc tagttcccag cctgctccct 540
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<210> 849
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 849
 gcgcagggtct ctttcagtc ctggatggcg agcgcagccc ctgggaggcc acacttagtt 60
 ctttattgtg aatctctcgc tactcaagtt cgttcgggac cagggcctcg gatggcctcg 120
 gttgcccgta agtacgcgaa agaagagggt aatccaatcg ctggcctaga ggatagtgat 180
 cagacaaccc gaggattact aaacaagggg cgggcggtgtc cctgtctcat ggggttggcg 240
 tggggcgggg ggtaggcagc aagatcctcc aggctcctgg atgcaaagag tgagaaagaa 300
 agcgcagcct ctggcagcct gcttataaat gcagcctttc ggaagatgaa acttgcagtc 360
 ttaggttgct ctcttttata tccatgttcc aatcctctgg gctttcctcg aaatgaataa 420
 aattgtggaa atgaaaaaaaa aaaaaaaaaa 448

565

<210> 850
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<400> 850
gcgggccgcct actactacta aattcgcgkc cgctcgwcaa atggctggta agcaggccgt 60
ttcagsatca ggcaagtggc tggatggat tcgaaaatgg tattacaatg ctgcaggatt 120
caataaactg ggggttaatgc gagatgatac aatatacgag gatgaagatg taaaagaagc 180
cataagaaga cttcctgaga acctttataa tgacaggatg tttcgcatta agagggcact 240
ggacctgaac ttgaagcatc agatcttgcc taaagagcag tggaccaa atgaagagga 300
aaatttctac cttgaaccgt atctgaaaga gggtattcgg gaaagaaaag aaagagaaga 360
atgggcaaag aagtaatcat gtagttgaag tctgtggatg cagctgttat gaagatgggt 420
aaacttgaaa caaacaattt taagaattat ttggtctgaa gatgtyttac tttaaataaa 480
tgtctattgt aawggnaaaa aaaaaaaggg sggccgcycy araggatcca agctta 536

<210> 851
<211> 383
<212> DNA
<213> Homo sapiens

<400> 851
acttataatc caaaagacca ccaggatgac taaatagtag aaagaagagc tttattgggtg 60
atatcagttg caagctggaa gagaaagtct ccagcatgga ccaaagatgc tctctcttca 120
aacaggggaa ggacagggtt ggtctcattc ctctgagagt ctgtattaca caatagagtc 180
atacgtattc agcagggttg gggtagaagc tatacatatt tatgaggaga gccaagcaca 240
ggagcaatga ataaacaaac atgtaatata catcccatat tcactttggg gcaaaagggtg 300
aactatagga cacaaagaca gtgtgtgtgc agcctctata agctggctga aactggctta 360
aggtctgcaa ttgctcatca gaa 383

<210> 852
<211> 644
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

<220>

566

<221> misc feature
 <222> (642)
 <223> n equals a,t,g, or c

<400> 852
 gctttacctg agctttgacc tgcgtagcaa tatgttgatt tttaaggat gttttgtaaa 60
 ttaaaaaaat gctattataa aataatgact ttgaagagat ggtaatat ttttgaaca 120
 tattaatgga ccaactgctat catgtagttt ttaatttaga aggetcaatt ttagttttta 180
 ttagaaagaa tattgttttag tatcaaatga ctattaaaag tatatagtg ccaaaaaaga 240
 aagacgtgaa ggaatgtgga amcattaaaa caaaatcgan cctccttaag tagtagttat 300
 atcagatgta attaaaagat gggatgtaat ttgactatca aatacttgaa ccaatgcttt 360
 tatttgtaat atatatatgt gtatatatgt ttttgattac caatattaaa cmcaaagtga 420
 aacmctattg atttgaagca ctggcccat taaaaataat ttaaatgggt accccagaac 480
 cttgtcgtaa ttttattggg gatttttgta caatatatag ccctagnttc gtctccaacg 540
 ttctcacctt taagaaagca tttacatttc ctatcctctc ccaactggga gaatatgcaa 600
 atattataaa ataaaattct ctttttagaaa ttaacaaaaa gnaa 644

<210> 853
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (440)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (449)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (521)
 <223> n equals a,t,g, or c

<400> 853
 tttttttttt tttttttttt tttttttttt tttttttttt taacaaatgt ycagttttwt 60
 tcattacaaa tattaacatc atttttcttt tttttatcct ttatgcatca ttttatacat 120
 tcacacacac aaagaacatt aaaaatatat ccaattattc aattttgggt gaattttcat 180
 taaaataagt gttaaaaata tttatttggt ttctgttttg agaaggcttt tattgttgta 240
 ctccrgagtg ttattttctgg agacaaagtt gcctgtgctt taatagggag attcctggga 300
 gaatctaaac cataagcaac aaaattttta gtttaataat tcaagacaaa gcagaaagta 360
 tagatttgct ttcagcattc ccgaggtggt tagattttta ttagtcacct aattaamata 420
 ttgttccaat aattggttcn tttcctceng aaaataagca gaaactcata cttacaccaa 480
 aacacttcca taattttctt acacctagg gtttatcctc nggaatg 527

<210> 854
 <211> 513
 <212> DNA

567

<213> Homo sapiens

<400> 854

```

aaaaaaaaa acaatgaaag tagcctccac ttacaaacta attactcttt cttgaaaata 60
ttacactttt tttctttctat atctctactc ctagctctca acacctttct taagcccaca 120
tcataacctg tcttgcataa ctttgtgagt gcccaacgtt tcaactgtaca agattgtaga 180
gctgcatgct tcttaagaat aaatccacac tttagggtacc agtaaatacca tgcaatgcct 240
cagacgttat aaccaaataa tgcctggaaa atcgacatga atttatgtga agcataagcc 300
tttaattttt ttaaagaaaa gtagattgct gtttttccac atcatttcag agccgttctc 360
tagttttgca tgccctttac tgcagaacca tacagatttt gttctccatt tcatacatca 420
tttgttgaaa tgccctttta aatgtaacgg aatatagagc tttatgggaa aaaatgctgt 480
agaaaataaa ttatcttctc tctttgtatt ggg 513

```

<210> 855

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<400> 855

```

gtcttcayct cegtatctgg ccttatgttt ttatgcattt caaggtagca gacatcagta 60
cattttacac ctagattcgt ttacatgcat agcattagag ttcaatagtt gcttactgta 120
tttaggtaaa cttttcatac agtgaaacgc aaaatctcaa atgtaccttt caatgaattt 180
tgatgcatgt acacaccttt ataactcaaa tcactatsca gatgtagaac atgaccatca 240
caccagagge cctcctgccc cttctcagtt gattctaata tccactcccg aaagcaacca 300
cagttctgat ttttttcacc atagattggt ttgactaact ttttgaactt catataaatg 360
gaatcaaaca gtatgtactg cttcacataa ggcttctctc actcagcata atgtttttga 420
gatccgttgn gntg 434

```

<210> 856

<211> 1432

<212> DNA

<213> Homo sapiens

<400> 856

```

gcaatgctat cggtttttgac aggaagcacg atggtaagaa taccactaac gaaaaccttt 60
gtgggtgtctc aatgacaaat atgcagatgc caccctcctt tgtctaattg acgggtgcttt 120
agggcaacta ttaataataa agcaactcag aacttgtttc aggaagtgtt gctctttcgc 180
cttacatgcc aaggttctag ggaaaaagct gaccatatgt aaaaacattg atgctcaagc 240
acataaagaa ttcattcttt aaacatagag tacataggrr caagtctctg cacaataatt 300
gagatgtgtt ataggggaaag tgagccagtg ctattgtyca cttagtcttg gtgaatgtgc 360
agtaggctca cccctaagga atctcatgtt gcctgcagta aaaataaaaa tggactgcta 420

```

568

```
caatgacata ctgagagagt tttaaatcat gctttacaaa ctgacattct gagctctgag 480
acagcagaaa atgtatcacc agagcaaggg aggaggcaaa tggtctgaac aataattgaa 540
atggttgtga ttttatttgg agttggcaca gatccaagtg accaaaggag ttcaaggccc 600
aaaatttagt tatgctggat taattctgag agtaacaagc acatagatta taatctaaga 660
aaaccctttg tagctatgca tgtcgggaga gcatctaaca ctaatggtga tgtttcccat 720
gcagagactc agattacagt gactcttcca gtgaagacag atgaaagcca ttgggcattg 780
tacctttgtt aatcaagcta aactaaccaa ggatataggg gtgtgtatgt gtctgtgtgt 840
gtgtgtttgt gtgtgtgtac acatacatct ataggtatga atgagacaaa aagctgctga 900
cttacagctt aggaaatgca aagtcaagtt tttcttttca ccctgaggca ctcagtgcac 960
aaaggttcaa gttttaaaac taagaatgtt tccaaaagac cagcaatgtt aaaagagtat 1020
ttcgtgtata ctgacgtgc ctttaagcaa taaaaattcc aagagctgat cattattgtg 1080
cttccatttt agaaaagttt atttagtaac aaacttccca gtgtagggag gtttttccct 1140
gcccttttga acatgttagg ttattttctt cctatcctgg ggccttacca atgtgtaatg 1200
ctttcaaagt ttctatgaag cctgtgtgga ttctatttta gcttatttat atattctcat 1260
ttattttgaa ggatattata cttaatttgg ttccagagtag tcgccagggt ttgcacctga 1320
caatggcaca tattttttgt ataacttttt ctaggctcct acccttttcc acactttaca 1380
tttgtacagt gaaagcaact gccagtggag gcctgaaatg tccaaaaaaa aa 1432
```

<210> 857

<211> 1140

<212> DNA

<213> Homo sapiens

<400> 857

```
ctttggggaa tctggagtag aggcctctcc gcccctgacc accgaaacgt gcaggcattc 60
tcaactcacac tgggcagccc gctgtcgggt ctctctaggg ctatgaacca caaagcaggg 120
aagtgggcac gttctctcgg ggtggctcac agctttgaac ctgccaaagg acccctcgac 180
tggccacagc ccagcccagc ctgacgtgga tgtggctgcc caggaaaaga cttaactgtg 240
aaaaagtact gagaaccacac ctgacccagg cttgccccaa gcagaggcta gagaagaggc 300
tcctcttctc agtgtttccc aaaggggcgg ctcttgtggg ttcaaaatct ctggcaccat 360
cttgacctct tggctctctc tgcactttgc cccctgtctc aaaaatgtcc ctcatgtcca 420
tttctgtgcc aggagactca tgaggactgt gtgacctgca caagcccaca cctgggcagg 480
ctgttggtgt ctctctctag gcagagcgtt cctggccaga gctctacctc tttgctcct 600
gctgacccct gacagcgtcc cgtgcatctt ctttcatgtc tgcataattgc atagccttgt 660
cctcctgtgt gcctgagctc ctcccttttc aataagatta ttagtcgtgc atgtctgtga 720
gctgcctttc atcaccattt ttctgagta gggttagtt ttattctgga aagacatctc 780
caaggtgagg tccaccccca cagcagacct caagtagaaa ttgcccatt tttaccagct 840
ggagggacac ctttgggttt ttgtacgaag ctattttaatg agcctgtgtc ttggggactc 900
agcaggctgg agcttggggc ctggtggacc atcacctggt gtctgtaggt ggaccgggtc 960
tcccacaggt gacatcaacc tgaggtgggc gtcttttagag acaggcacat gggcagctct 1020
gttcccttcg cctctactgc gaggcctggg gagatgttgt tttcatgtc cttccaccat 1080
cacactgggg tttctggatg ggaaataaaa aaataaaggc agttcatttc cccaaaaaaa 1140
```

<210> 858

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

569

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<400> 858

```

ttggaacgcc cgcgtccgct tgtatcaaaa ggtccagacc taaggggaaa ttttatctct 60
ttctttcttt ctttcttttt ttttgacaca gagttttgct cttgttgccc aggctggagt 120
gcaatgacac gatctcgggt cactgcaacc tctgcctcct gggttcaagc gattctcctg 180
cctcagcctc ccgagtagct gggattacag gcgcccgcga tcacgcccgg gtaatttttt 240
tgtattgttg gtagagacgg tgattcacta tgttggccag gctagtcacg aactcctgac 300
ctcgtgatcc gccacctcg gcctccaaag tgctgggatt acaggtgtga accaccgtgc 360
ccggnctctt tntattaatt cctaaaaat taccttgagg ccaaattctg cgcttaagga 420
gaatgtgcac caagtgtcgg ggtgggggct ggttataaac gaggccacaa atcatgcttg 480
ttaataaatt gtgtgggttca aatctgaaaa aaaaaaaaaa caaaagagtt tt 532

```

<210> 859

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 859

```

ggctttattc agaggtcaaa cttccttnaa naccagaaaa ttcatactga agagaagctc 60
tatgaatgta gtcagtatgg gagagatttt aactcaacta caaacgttaa aaataatcaa 120
aggggtcacc aagagggact ctccttgagt aaggcccca tacatttggg tgagaggtct 180
gtagataagg gggaacacac aggttaactta taaaataatt actttccgcg ccagtgagtg 240
atgtttggaa atgcgtggaa ttaggattca tgtggtttct aagatttggg catgtcagaa 300
ttttgtgagt catggatggg gctgcttttg cagcgggtgc cacctgccac tgtgcanccc 360
tactcggctc agcccttctc ctcagctgtg a 391

```

<210> 860

<211> 567

<212> DNA

570

<213> Homo sapiens

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 860

```

gtcctattcc tcgtggcagc ccaagccagc tgctggcccg gaggggagct taccttctca 60
aagaggccca ggagttttat agcctccttg aaacctttgt ttctatggac agaaagttca 120
tgatgcagat gctaagtttc tcttaacctg tttcttttta tttaccttg ccattctgga 180
tgaaaatgct gatcggtggg cactttctag caagaacggc ccttgtagct ttgaccata 240
aaacaagact gttatcattt atagacactt ccattaaaaa aagatttaag gaccgggcac 300
ggtggctcac gcccgtaatc ccagcacttt gggaggctga ggcggtgga tcacctgagg 360
ttgggagttc gagaccagcc tgaccaacat ggagaaaccc cgtctctact aaaaaattag 420
ccaggcatgg tggcgcatgc ctgtaatccc agctactcaa gaagctgagg caggagaatc 480
acttgaaccc gggaggcgga ngttgcgng agctganatt gcaccaccga ctccanctg 540
ggcaacaaga gtgaaactcc gcttaaa 567

```

<210> 861

<211> 664

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 861

```

accattatt gagaatacac ctgaggagaa gacctcaang atagwatggc tcatgcaatg 60
aatgaatacc cagactcctg tgcagtactg gtcagacgtc atggagtata tgtgtggggg 120
aaacatggga gaaggccaaa accatgtgtg agtggtatga ctatttattt gatattgccg 180
tatcaatgaa gaaagtagga cttgatcctt cacagctccc agttggagaa aatggaattg 240
tctaagccaa aagaaagtct aattatatac agagataaag ctaaacgtaa ttattattta 300
aatgaaagct atttttttta atgaattgaa atttttcatg atgctactaa tttgccacta 360

```

571

```

aatactgcaa atgggcaccc tgaatctctt ctgacattgg atgttatttg cttatattct 420
tataatttta aatgagggca cagtgaatg aaaattttat actctatgtt tctgtttatt 480
tttaaatcct taacagcaaa atatttgctt ttaatttctt ttttatatat actctcagag 540
aatcctctt aattttttaa gatgctgggtg ataataaaat tcattagaaa atttcctcat 600
tgtggaatga gcattctctt gttttaatgt tgggtgtcaga aaataaatat gaaacattaa 660
gtcc 664

```

<210> 862

<211> 803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (705)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (761)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (791)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (796)

<223> n equals a,t,g, or c

<400> 862

```

gctagaatct cagtcttatt ttaactactg attttgattt cccctaatat caatttttaa 60
aactgctaag ggaaaaatgaa atactagaca tgagattttt tttctcttta ttttcaccca 120
acaaaccatt tggaatcagg tataaagggt atcaatcagg aaaaaacaga aggccaggag 180
acagagccca ataagggaga cccatcccag ggagcctggg agtcagcggg cctggatgca 240
cctcccagtt ctgcctctta ttagccagct gtgtgttaac cctcatctg gtttgctcaa 300
ggtaacatga ccatcacaaa agcaacagaa acagattatt tactttcaga ttaacttgtg 360
aaaatgacaa gttgaatatt gtcatttcag tattcaagtt gaatactatc aattcaatat 420
tcaagttgaa tattgkcaca agttgaaaga ttaacttgtg aaaatgacag ttggttgaat 480

```

572

attggtatatt tctgcctcca attgttgcatt ttgttatattg caacttttaa tgcaccataa 540
aagcatttttt gttttgtttt aaaagcattt gttttaacgc accttacaag catttttgtt 600
ttgttttaaaa agcgtttgtt tacaaatttg tgttttgtga cttctgggat gatttaacaa 660
cttttaaatgt accttaatac ttctctgtta gcttttgaga ttaanaacta ttctaatagca 720
atttagccat tatgaaaatt gatgatatta gtanaggtaa nagatatnga atagaagtta 780
aataagccaa ngactntaag aga 803

<210> 863

<211> 633

<212> DNA

<213> Homo sapiens

<400> 863

gactggctta gagacattgg gcagccaaca tctgtatttc ctcgtcagga agtgggcatg 60
gcggttggtg gagattaaac ggggtgtggg tgaagatcca gtgagcggtt ccagctgtgt 120
tgtagatgta aacctagcag ttaatgtggc aggctgtgtc tcatgcctgc tgagcaactg 180
ctggcttccc cgtcattctg tcctcttgga wtctctgaa ttcattagg cctttattta 240
atccttgcac agtgcctccc tgcccaaat gctcttccc attggtcttt tttaacctgt 300
atcttaacta ttcttccttg gccgttagct ggcaactaag ggacacttag cctcctgttg 360
aggctaagga ttactagagg aggagaactt cagagtagca aataatcaga cctccatcca 420
ggaagatgga cgtgggtggt ctgacatggg agcctagtat tttraaagct ccttaggtga 480
ttctaattgtc agcagggctg aaaatcccc tccttaagca catgggcact taggaggggg 540
tctaggttac attgtggcca agtctgcagt ttacagttct ggacaagaac cccaaccccc 600
aatttatgct atggtgatag ctgtgctctg gtt 633

<210> 864

<211> 507

<212> DNA

<213> Homo sapiens

<400> 864

tcaagggtca cacagggtta agttcagtaa gctgtgatcg tgacatgcct ccagcctggg 60
tgaccgagtg agactgtttc taaaaataaa aacaaaaaat aaatttcttc ttgaggtggg 120
gtggaggtgg ggagcaagaa tttagacctg ctctgatccc tgggtgtgtg tgtgggcctc 180
tttaacgttt gccactgagc cttaacctca ctgtacttca cagcattgg 240
tgtaaacatt ttaatcttag aagacctga cccactgagg gtttgttgtg agaattgctg 300
aagccacgta gaagcacctt gaaatctgta aaaccacaag aaagtacttt ataaaaggta 360
tccttatattg aagtggataa atcttgtaac tcgaaaagtt gtgatttaga agacaggatt 420
gtttttgaac attaggaatt aaaggctata tctggctcctt aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaa 507

<210> 865

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

573

<400> 865

```

gcatatattg atacaaccat atgggttttcc tgcttactta ataatttaca gaatatcacc 60
aattcctggt aaactactct tatatttctg ggctaaccac tgcttgatcat agtgtgttta 120
ctcttttaat tttcaacttg ctttgacttg ccgagatatt gtttaggatt attttaaatg 180
tattcaaaag tatgggttgcc ctttagatct ttgggggggtg ctgtcttgaa cagttttagt 240
aatagagcaa cttttttattt tttaatagaa ctgctattta attttttatt ctttaattggc 300
angt 304

```

<210> 866

<211> 1711

<212> DNA

<213> Homo sapiens

<400> 866

```

acctctattc ttgatgacct ttttaaaagt catggaacag tcccacacaa ctgccaaaga 60
aagttctttc agggcccatg gaaaaagcaa aacagagacc aaaagatttc tgggacatct 120
tgaatgagca gaatgatgag agtcttagta aactcacaga cttggcagta atagagactc 180
tgtgtgaaaa agcacctcta gcagcaccct ttaaaaggag agaagagcca gcaacttctc 240
tttggaatc aaatgagaaa tttttatgga agaaatttag cccaagtgat acagatgaaa 300
acgcaaccaa tacacagagt accacataag catataaatg aattactgca ccagtaaact 360
gctgccatca ctgtttacgg cactggattc cacactgatt ctattatctt gaacacagtt 420
gttgacatat atttttatta aattattgct ttaggatttt ttgaagtcta aagtattgtc 480
atggatctgt ttttcttgat atttgatttg atctttcaag aatatgattg gatttatagt 540
ataaacctct gttatgaatt agaaaagatt ctaggtttgt taataggaga cctgggacat 600
ctttcttact atattacata atgatgtgac acttgccccg gtgagcattg tttcccagta 660
tgaaagatga agagtctgta ccgaatcagc atgagtgtcc ttccagttta aaaaagcttt 720
cktcgctctc ctaatggctc ataggctgaa tcatgtctgc ccctcaaate aggtgtatac 780
caatgtgttt tttactagca cttgggaaag ttattaagta ttttcttttt ccctgggcat 840
catgttctat tattatttta gaaaaaagtc ataattggta ctgaatataat ggtatatata 900
atattaaaaat ggtaattttg caacagctca aaattaaaag gttaatgtta tacactttac 960
tatatgagct gtgattacta ccattagcca cagataccag tgcctcaact ttttatgtac 1020
ctattgtgat ttaatgtaaa taaaggtttg tatagtactt ttgtagtctt taagtatgaa 1080
gaaatgggta aactttttat tttgtttagaa actgttatat tttgagtgtat atatttatgg 1140
tttatagcaa aatgaatgtg cttattgttg aatgcatgta tttagaagcc tttactcagc 1200
ccctgtgttc tgtgctagga gcttgagctc tacaggtaag gcagagctac cggatgaatga 1260
aaggaaatca tgtcagtga aaatcatggt ggaaagcccc tggcatcaca tgtgcatgct 1320
gtaggcagga cctgagctgc ctccgctgca gggtcagatg caccgctgca gctgtccttc 1380
agtttagttca cagggtctgca agaggaggac acatccctcc agaaaacagc ctgagccggg 1440
aactggctgt gctaaagagc actgctatca agttgaggag agagggttc cgtgtactca 1500
ggatgtagag tcattgctca gaagtgaaca aaaaatcaaa aacaaaagtc ttctcaaggg 1560
actgatcggc caagtatgct tttctttaga gcaatgtttt gccctagaga attgtaaaaat 1620
ttatgtcatg actcagtaca tatgtgttcg tacatatatg attggaataa aatgtttatg 1680
aaataaaaaa atttttttaa aaaaaaaaaa a 1711

```

<210> 867

<211> 567

<212> DNA

<213> Homo sapiens

<400> 867

```

gcagcatcta taagctagga aggaggccct caccagactt ggaatctgct ggcttcctga 60

```

574

```

tcttggcctt tctagcctcc agaactgaac atggatgaag ctggaggcca ttatccttag 120
caaaactaaca caagaacaga aaaccaaata ccgcatgttc ttccttataa gtgggagcta 180
catgatgaga tgagaacatt gccc aaagga accaagtga attaccaaat tagaagtgat 240
aagaggttga ctctctccag aaatttattg taattagcaa gaggtaatgg tgtctaaata 300
agatgaaaga agatatttta aagatgataa taacaaaaac tactagaatg aggtgaagcc 360
agaaaggaag agtcataatc aaagaagaga gtgatcaaga atccaaaata gacagagaga 420
gcaggctctt agagaaatgg gagaactacc gcaactgactc tgcacgtagg agacaggcag 480
gagaggagcg cccagccag agctcaacat gcgcaaacag gaagtgtgtc cgaggttttc 540
tggagctcac aggagccggg gaccaca 567

```

<210> 868

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<400> 868

```

ggaaaaaaag aaaagaatag agctacagaa ggaagttcaa gcctaaatta atttgccact 60
gaaaaaatac attttgttat tttctctgtg tcaactgcat gattaaaacc ggctgttaag 120
tgagctctgg ggatgtgctc gtaaaagatt tatgagtaat attcaatgtg atattcaaag 180
tgagtcatga atatcaggat aattgctctc agtgctggct cttttactag gcaggagttt 240
gkcaactgcc ccataaatat ttgectantc tcatgtaaaa aagacmattt catcttctgc 300
atttttatta cctagtataa tg 322

```

<210> 869

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<400> 869

```

ccgggtcgac ccacgcgtcc gattgcagggt gtgaaccact gtgcccagcc ctgattttta 60
tatgtcagaa ctaattcggg tctcttaaaa tgctctgtgg ggccaaacaa attgtgtgcc 120
agatgtggcc ctcaagttgc cagtcctgtc tgtaccagga tgcttcgtta ttgacaaact 180
ctcacattgc aactggagtg gaaacggtgt tagccactaa actgngnggg tttcata 237

```

<210> 870

<211> 523

575

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (62)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (91)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (516)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (519)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (523)
 <223> n equals a,t,g, or c

<400> 870
 ggaaggggga agatctggat ccaaccgtgg gtgatggtac ccgnggcccc caggttngga 60
 tngggatgga ccaaaatccc atctggggcca ncggctctat ggaaaattkg gcttaagtaa 120
 ttatttccag tattccattg tattccattg tcccttcgtg ttccataagt taaatgactg 180
 tctaattttt ccaaaaattt atttctgact tgagaataag tgtgtcatga ttttcccagt 240
 gtaaagacac tgatataact gtagatacca gacattttat gtagtgtcta tgacacattt 300
 tagtatgtat gagccaacaa tagacatgctc tttgtcttga ggagtgtcca tctgaattga 360
 aaatgtgtca gctttttttt aacatcatca acagacttct taattaagct gccaatacat 420
 actgccata cactgtgtgc tgtctgagaa atgcattgtg taagtgtctat ttccatctta 480
 ttaaataaac aatgttgctc tgtataaaaa aaaaanaana aan 523

<210> 871
 <211> 1172

576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<400> 871

```
gaagccaggt ctgctgtggg caagtatagc ctaaccctag tcttgtaaaa taagccagaa 60
agggttactg agccacctta agctagtacc tatatagtag gcaaaaagta cagaaataga 120
tgcaataagt gtggtgagtc tttgagccta cgagtcatgc caccagccat aagntgacct 180
atcacttgag aacctcctca gcaaagatgc cagaaaacat tcaatcaagt tggcaaatga 240
cacaggggaag cttggccctc ttgaccatct tcctggcaaa cctggactgg aagggccatt 300
tgcagcactg tcctggagct aatacactgt ttcactgcct ctgccatata atgatgccag 360
cactagccag ctggtgggta tttggaggaa tcctgcataa ggattgcca ataaggggca 420
ggtagacata cctggcaaag tgatgatgat gtgaattggt tccagtgagg ggattgagtc 480
aaaacttggg tctcaggtac ctcaattttt ccccmattt ctggctacta ctaaaagcca 540
gaaagaacag aacagtggcc tcaggagatc tgagtttgaa tccttgctct ctaggatgca 600
ggtggcctga agcagaatgc cacacctgca agttgattag aactgccttt cttcccaggc 660
ttgacatagg tattaagtcr aaattacatg aaaccagtg gtaaaaaagc ctctgaaagc 720
tgtaacaccc ycagtaataa caaaagggat ttttatttcm cagctaaagg gaaaataggt 780
ggagaagtta aaaaataatg tctgatcctg ttcctaagtt ccaaactata gccaacactc 840
tgatgctgct ctttttcttg taggaccaac cgtcccagtt tgcctgggac tttctcattt 900
ttacagagtc ccaaactcta ggaaactgga gcaactggta caactgggtca cctactcttg 960
cccctctgta aatcaagcca actgtgacca tccaatgtgc catcttacag ggaaaagtta 1020
taaccactat tcccctataa cataatgcta atgattgtac ttagtacatt tttatacttt 1080
tatgataatt tactgattgg aaatgtcatc ctttatttaa aataaacatg gttttccata 1140
gttgccctgcc aaaaaaaaaa aaaaaaaaca tt 1172
```

<210> 872

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<400> 872

```
gaaaggccga gatctgtcca gctgcggtga gaggnacgct gaatcgccga agagaattgg 60
ctgcgcttcc ttgtttgtga gctagaatta gaatggcgat cagtccacga agcgatgcaa 120
ctttctccag tcagaaatca acaccttcag agagtcctcg aacaaagaaa tttccactaa 180
ctgaagagga aatattttat atganttgta gagctgccta cttaactgtc ttcaaaagca 240
gcttggaata cattatttct aaagatcaac tttacttagc tcttcagcat gcaggaagaa 300
```

577

```

atccatccca aaagaccatt aataagtatt ggactcctca aactgccaaa ctgaattttg 360
atgatttttg tataatttta aggaaggaaa aacctacttc aaaagcagaa ctactaaaat 420
catttaagca attagatgta aatgatgatg gctgtatttt acacactgac ctttataaat 480
ttctaacaaa gagaggtgag aagatgactc g                                     511

```

<210> 873

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<400> 873

```

gggcttttgct gtgcagaagc agcagttata tcggtccttt caagaaactg cctgcagaga 60
ttcctggagt catctgcctg gagcattgsc cactcacctc ctcaactcac ctccctggctg 120
ctccacgtca ttctttccaat ctcatcttaa atgttatttc cttaaagaaa ccttttcctga 180
cccagagtaa aatcagtagc ttcgggtatt cactctcaca acaccttgac ttttttcctt 240
catagcactt agcacagttt gcacttatat ttatttttagt gttttctggc ttaaaacctg 300
tttgccctat cactcatgaa actataaacc agaccctntc tattttactc accactgtat 360
aactagtacc taacagagca tggcataaag nggctactaa gtaaataaat aatgaataaa 420
tgaatgaaca tacctgnttg cctaactaaa ggatctagnc attt                                     464

```

<210> 874

<211> 88

<212> DNA

<213> Homo sapiens

<400> 874

```

tcttttttgcc tttaaaaatc cacttgcagc tgcgctaate caagtgtaga ttcctggcaa 60
catgaatctt tgatcccagg ttacaatt                                     88

```

<210> 875

<211> 617

578

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (533)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (578)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (596)
 <223> n equals a,t,g, or c

<400> 875
 gcggccgctg ggcctgagtg tcgccttcgc cgccatggac gccaccgggc gctgacagac 60
 ctatggagag tcaggggtgtg cctcccgggc cttatcgggc caccaagctg tggaatgaag 120
 ttaccacatc ttttcgagca ggaatgcctc taagaaaaaca cagacaacac tttaaaaaat 180
 atggcaattg tttcacagca ggagaagcag tggattggct ttatgacctt ttaagaaata 240
 atagcaattt tggctcctgaa gttacaaggc aacagactat ccaactgttg aggaaatttc 300
 ttaagaatca tgtaattgaa gatatacaag ggaggtgggg atcagaaaat gttgatgata 360
 acaaccagct cttcagattt cctgcaactt cgccacttaa aactctacca cgaagggtatc 420
 cagaattgag aaaaaacaac atagagaact tttccaaaga taaagatagc atttttaaat 480
 tacgaaactt atctcgtaga actcctaaaa ggcatggatt acatttatct cangaaaatg 540
 gcgagaaaaat aaacatgaaa taatnaatga anatcaanaa aatgcaattg atatanaaac 600
 taaccagaaa atgttga 617

<210> 876
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (271)
 <223> n equals a,t,g, or c

579

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<400> 876

```

ggcagtttca attttactat ataaggtgtc taattatacc cattagataa aacaacctca 60
tcagtcatta gacatcaaaa actgaattaa gctacagaaa acgttgattt ttgaaagcag 120
cctattatca ctgtcagctt tccatgacgc tgatgtttga ctatagtaaa acaaataata 180
tatgtatata cctgatctac tatctatatt gtataaagtg gcaatgacta aagggggcaa 240
caagtattat attatatact tggcatttct ncttcatgaa atgatgtggg tctgn      295

```

<210> 877

<211> 652

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<400> 877

```

cacacataga ccaaacttgt atacacacag acatctacac tgacataccc catgtacaca 60
cacagatcta gacgtgctcc acatatgtgt gaatatgctc acatacaggc ctaccacaaa 120
cacaaaaccc acctgcaaaag gtttcacgga acngggagnc tctcctggcc tcccgtccct 180
cctcccagcc tgtttggtgt gcctctgtag agagcgcttc ggagagagag gcgaagtagg 240
aagtgggatt ttctcttccc tctcctgggc ccgtttgccc ctaccctcgc ccagcaagct 300
gcgccccaat tctattctgc ctctggaaac tgctggacca tccaaggcca gctgcctgcc 360
ctgaccccta cccagaggcc agcttgctct cctgggaggg gggacaggcc ccagtgaggt 420
tccgttgctg gctgtgccta tctctcgatt ccagggcaga tgagccacaa catcaccacc 480
ctgccactta caaggtgggg gacctgggtc tggggctctc ggcgcaaact ggaggccctc 540
acagcccact aggccccctc ccaaccccag taccctcagt ccctcagtca ggtggtgcta 600
gtagagctat ctctgacgst gcaggcccca ggtagatggg cagggcccgt gg          652

```

<210> 878

<211> 431

<212> DNA

<213> Homo sapiens

<400> 878

```

ggaagaaaatt tgatttcaga aatgtcctat atttaaataa gcaaagccat tgaaattgaa 60
gcacatttct tatttgaagc atctgggaaa tacaactgtt aagtatctct caaatattca 120
gtatatggaa tttataccca catttgtttg tatatctatc tgtaagctgt tgcttagaag 180
aattgagagt ttggattatt tcagaatata actattacag tttccatag ttgattgaaa 240
gttttttaaac tcaaactttc attggtagaa tatctggaag gcatgtttgc aatataatgt 300

```

580

ggctttagg atctctccta cttttttatg ctctgttttg ccagttctca aaagtaaata 360
cctgaagtcc tagaggtact ataaacattt tggtaaacad tctttgagac tttttctcat 420
gtacatgtaa a 431

<210> 879
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<400> 879
aagtcggagg tccccaaatc tgccgtgtat gtggggacag gccctgggtat cacttcaatg 60
tcatgacatg tgaaggatgc aarggctttt tcaggtagag ttacccatca gccttcaccc 120
acgtgccacc actgacccac tgggtaacrt ctcagggcct cagcttgacc trtccccag 180
gttcagagtg tgggctgggtg gcccacccaa aggccttgta attagtctca agggagccat 240
ttatatccca gaggaatcct tcattcttcag tcttcctgtt ctaccagga aaggtctcct 300
tccattaaga tatcccttgg tttctccatg tgctcttgaa taaaatggaa aatgactcag 360
tgaaaaaaaaan 370

<210> 880
<211> 326
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<400> 880
gcggacgcgt gggcgcgctc ctctctgggtg gactcgctag tgctgcgcga ggcgggagag 60
aagaaggcgc ccgagggcag cccgcgcgcg ctcttccctt acgctgtgcc cccgcgcgcac 120
gcgctgcacg gtctctcgcc tggcgccctgc cagcgcgca aggctgggct gctgtgcgtg 180
tgcccgctct gcgtcacgc ctcgcagntg catgggcccc ccgggcccgc gcgctgcctc 240
tactcaaggc ttccttccca ccttcgggt cgcagtactg cagcgcccc tgggcccgnca 300
gcactctgct gngtcgcccc gggtcg 326

581

<210> 881
<211> 1315
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1283)
<223> n equals a,t,g, or c

<400> 881
agaggctcag gcttacacag cttacctctc aggaatgcta cgttttgaac atcaagaatg 60
gaaagctgcc attgaggctt ttaacaaatg caaaactatc tatgagaagc tagccagtgc 120
tttcacagag gagcaggctg tgctgtataa ccaacgtgtg gaagagattt caccacaacat 180
ccgctattgt gcatataata ttggggacca gtcagccatc aatgaactca tgcagatgag 240
attgaggctt gggggcactg aggggtctct ggctgaaaaa ttggaggctt tgatcactca 300
gactcgagcc aaacaggcag ctaccatgag tgaagtggag tggagaggga gaacggttcc 360
agtgaagatt gacaaagtgc gcattttctt attaggactg gctgataacg aagcagctat 420
tgtccaggct gaaagcgaag aaactaagga gcgcctgttt gaatcaatgc tcagcgagtg 480
tcgggacgcc atccagggtg ttcgggagga gctcaagcca gatcagaaac agagagatta 540
tacccttgaa ggagagccag ggaagggtgc taatcttcaa tacttgcata gctacctgac 600
ttacatcaag ctatcaacgg caatcaagcg taatgagaac atggccaaag gtctgcagag 660
ggctctgctg cagcagcagc cagaggatga cagcaagcgc tcaccccggc cccaggacct 720
gateccgactc tatgacatca tcttacagaa tctggtggaa ttgctccagc ttcttggttt 780
agaggaagac aaagccttcc agaaagagat aggcctcaag actctggtgt tcaaagctta 840
cagggtgtttt ttcatgtctc agtcctatgt gctggtgaag aagtggagcg aagccyttgt 900
cctgtatgac agagtcctga aatatgcaaa tgaagtaaat tctgatgctg gcgccttcaa 960
gaacagccta aaggacctgc ctgatgtgca agagctcatc actcaagtgc ggtcagagaa 1020
gtgctccctg caggccgcag ccattcctga tgcaaacgac gctcatcaaa cagagacctc 1080
ctcctcccaa gtcaaggaca ataagcctct ggttgaacgg ttgagacat tctgcctggg 1140
acccttccct tgttcaccaa gcaagccaac cttgtggcac ttcccaccag sgtttcagcc 1200
ctttccctgg caaggctttt gttctttgga ctgggccytc aaaccatgtg ggcttttccc 1260
accccttgag ggacaagttt ggnacaggaa ggaccaagag tgggctcact gggtta 1315

<210> 882
<211> 988
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (977)
<223> n equals a,t,g, or c

<400> 882
gatcctctgg ttttagaaa acgcagtgga gacagggacc tggagccaga ttggctagcg 60

582

```

caacttcgga ggcagctgga gcaaaaggta gcaggagaca ttggggatcc tcatacctact 120
cgctcagata tttcgggagc cggaggaaca acaacagaaa acactttcta ccaggacttt 180
tctggatgtc aaggctactc tgaagcccct gggtaccgct cagctctgtg gctgacacct 240
gagcagacct gcctgtctcca gcccagccca cagcagccct tccccctcca gccgggctcc 300
taccagcag gagggggtgc agggcagaca gggacaccga ggccttttta ctcagttcct 360
gagacccatc taccagggac tggcagcagc gtggcagtga cagaggccac tggaggaaca 420
gtctgggagg aaatgctgca gacacacctg ggccctggas asaacacagt gtctcaagaa 480
acttcccagc ctctgatgg ccaagaggtc atttccaaac cacagacacc attggctgct 540
asaccacgan tattttctgag agttccgcca gtccagccaa ggaggatgag aaggagtcct 600
ctgatgaggc tgataaaaaac tctccccgaa atactgccca gagaggcaag ctcggagatg 660
ggaaggagca taaaaagagc tcagggtttg gctggttcag ctggtttcga tcgaagccca 720
ccaagaacgc atccccckct ggagacgagg actcctcaga cagccctgac tctgaggaga 780
ccccagagc atyttctccc caccaggctg gcctgggcct ttcactgaca ccttcccctg 840
agtccccacc tyttgccgga tgttagtgcc ttyttccagg ggcakagggtg ggggggtgaar 900
gcckaggaty ccgcattccag cgggggggagc agttgcgggg gcgcttgggg tttggaggtt 960
tttttggaac cagaganttt tttctttt 988

```

<210> 883

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 883

```

gctggacgtg aattttgggg acactgttca gcacactcca cctagagccc caagggggcca 60
gagtgggttg aaggcggaag gccccagcac agtggaaagt ccgcgcttga ggagtgactc 120
tcttgtccst gaggtgtttc cagggtctgg gcagggggccc gtcagccctg aggttccggg 180
atgccctcca tctccacatt cccatgttcc ccacgctggg caggctcttc tctccaggga 240
cactgcgttc atggggagac atcgtcctct gagtccaggag ccagagggtg gaggggtggc 300
cgcrctmcag aggaggggga agatcccggt cccacgtgcg tttggccact gggggcgtec 360
ctgggcccgt cagcaggatg gctttarcac yggckgagtc tcccttcagc ctcgggggtg 420
atggtttcca tggcngaatt 440

```

<210> 884

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

583

```

<400> 884
gtcaaaattg agccagagga tctggacatc attcagggtca ccgtcccaga cccctcgcca 60
acctctgagg aaatgacaga ctcgatgcct gggcacctgc catcggagga ttctggttat 120
gggatggaga tgctgacaga caaagggtctg agtgaggacg cgcggcccga gganaggccc 180
gtggaggaca gccacggtga cgtgatccgg cccctgcgga agcagggtga gctgctcttc 240
aacacacgat acgccaaggc cattggcatc tcggagcccg tcaagggtgc gtactccaag 300
tttctgatgc acccgagga gctgtttgtg gtgggactgc ctgaaggcat ctccttcgc 360
aggcccaact gcttcgggat cgccaagctc cggaagattc tggaggccag caacagcatc 420
cagtttgtca tcaagaggcc cgagctgctc actgaggagt cnaagagccc atcatggata 480
gtcaacgaac c 491

<210> 885
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (683)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (720)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (781)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (817)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (827)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (852)
<223> n equals a,t,g, or c

<400> 885
caagcccacg tgcaatgagc tgatcaaaac catcatcatc cagcatgaga acatcttccc 60
aagccccagg gwgctggagg gccctgtcta cagcagagga ggaagcatgg aggattactg 120
tgatagccct catggagaga ctacctcggt tgaagactca acccaggatg tgaccgcaga 180

```

584

```

gcaccacacg agcgatgacg aatgtgagcc catcgaggcc attgccaagt ttgactacgt 240
gggccgggaca gcccgagagc trtcctttaa gaagggagca tccctgctgc tttaccagcg 300
ggcttccgac gactggtggg aaggccggca caatggcatc gacggactca tccccatca 360
gtacatcgtg gtccaagaca ccgaggacgg tgtcgtggag aggtccagcc ccaagtctga 420
gattgagggtc atttctgagc cacctgaaga aaaggtgaca gccagagcgg gggccagctg 480
tcccagtggg ggtcatgtag cccgatattt atcttgcaaa catcaacaag caaaggaagc 540
gtccagaatc tgggaagcat ccgaaaactt ttcggagtga cagccatggg cttgagcagt 600
tccctgactg actcctcctt cccaggggtg ggggctagct gccgccatct ccagccatca 660
tgagccagag ccttccaaaag aangggcaga taagtgggtc attaatgggc acggagcctn 720
aacttcatta accgcaatca tccttgaaga atcggtgga tagtccacag atccggaaga 780
ntggcacaaac gggaagggtca aaaggttcaa taccatnggc catggancct taggcaatgg 840
tcaagatatt gnggaacaat gaact 865

```

<210> 886

<211> 1006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<400> 886

```

ggcacgagct cgtgccgaat tcggcacgag ctcaaccaac ctgcatctag aaagtgaatt 60
ggatgcattg gcaagcctgg aaaaccatgt gaaaactgaa cctgcagata tgaatgaaag 120
ctgcaaacag tcagggcnca gcagccttgt taatggaang tccccaattc gaagcctcat 180
gcacagggtcg gcaaggattg gaggagwtgg caacaataaa gatgatgacc caaatgaaga 240
ctggtgtgct gtctgccaaa acggaggaga tctcttgctg tcgaaaaaat gtccaaaggt 300
ctttcatcta acttgtcatg ttccaacact acttagcttt ccaagtgggg actggatatg 360
cacattttgt agagatattg gaaagccaga agttgaatat gattgtgata atttgcaaca 420
tagtaagaag gggaaaactg cgcaggggtt aagccccgtg gaccaaagga aatgtgaacg 480
tcttctgctt tacctctatt gccatgaatt aagtattgaa ttccaggagc ctgttcctgc 540
ttcgatacca aactactata aaattataaa gaaaccaatg gatttatcca ccgtgaaaaa 600
gaagcttcag aaaaaacatt cccaacacta ccaaatcccg gatgactttg tggccgatgt 660
ccgtttgatc ttcaagaact gtgaaaggtt taatgaaatg atgaaagttg ttcaagttta 720
tgcagacaca caagagatta atttgaaggc tgattcagaa gtagctcagg cagggaaagc 780
agttgcattg tactttgaag ataaactcac agagatctac tcagacagga ccttcgcacc 840
tttgccagag tttgagcagg aagaggatga tgggtgaggta actgaggact ctgatgaaga 900
ctttatacag ccccgagaa aacgcctaaa gtcagatgag agaccagtac atataaagta 960
aaatgacatg gattttaaact aattgtttta aaaaaaama acgaan 1006

```

585

<210> 887
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (47)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (109)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (110)
 <223> n equals a,t,g, or c

<400> 887
 accaaccctc actaaaggga acaaaagctg gagctccacc gcggtgncgg ccgctctaga 60
 actagtggat cccccgggct gcaggaattc ggcacgagaa caagcggann ggggaaccgg 120
 gccgccaatg aagaggaaac gwaaaacaaa cccaaattga acattcaa ataaaaactttg 180
 gcagatgatg tgcgtgaccg aattacaagt tttagaaaat ctactgtcaa aaaagaaaaa 240
 cctcttattc aacatcctat tgattctcaa gtcgcatga gtgagtttcc tgcagctcag 300
 ccatttatatg atgaacgatc tttgaatttg tcagaaaagg aagtattgga tctctttgaa 360
 aaaatgatgg aggacatgaa ccttaacgaa gagaaaaaag ctcttttacg aaacaaagac 420
 tttaccacca aacgtgagat ggttgtccag tatatttctg ccactgcaa atctatagtt 480
 ggaagtaaag ttacgggtgg gctgaaaaac agcaaacatg aatgcaccct gtcttcacaa 540
 gaatatgttc atgaattacg atcgggtatt ttcagatgag gaaacttctt aaattgccta 600
 gg 602

<210> 888
 <211> 800
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (623)
 <223> n equals a,t,g, or c

<400> 888
 cacacacaca ggagagaagt cctatgtgtg cagtgtgtgt gggcgaggct tcagcctcaa 60
 ggccaacctc ctcagacacc agaggacaca ctcaggagag aagccttttc tgtgcaagg 120
 gtgtggacga ggctatacca gtaagtcata cctcactgtg catgagagaa cacacacagg 180
 agagaagcct tatgaatgcc aggagtgtgg gcgaagggtt aacgataagt cctcatacaa 240
 caagcacttg aaggcgcatt caggggagaa gccttttctg tgcaaggagt gtgggagagg 300
 ctatacta at aagtcatact tcgttgtgca caagagaata cactcaggag agaagcctta 360

586

```

cagatgccag gagtgtggcc gaggccttag caataagtca caccttatca cacaccagag 420
gacacactca ggggagaagc cctttgcgtg caggcagtggt aagcaaagtt ttagcgtgaa 480
aggaagtctc ctcagacacc agagaacaca ctcagggggag aagccttttg tgtgcaagga 540
ttgtgagcga agcttttagcc aaaagtcaac tcttgtctac caccagagaa cacactcagg 600
ggagaaacct tttgtttgta gangaatgtg ggcaaggatt tattcagaag tcaacccttg 660
ggaaacatma gatcacacac tcagaggaga agccttttgt gtgcaaggct gtggacaagc 720
tttatccaaa agtcaacttc actttcacca gaggacacac tcagaggaga agccttatgg 780
atgtcgggag tgtgggcgaa 800

```

<210> 889

<211> 387

<212> DNA

<213> Homo sapiens

<400> 889

```

gctctttatg tctctatttg aagatacttt gtctaaacaa aagaatccag atgtgcgcaa 60
tattgttcaa cagcagttct gtggagaata tgcctatgta actgtttgca accagtgtgg 120
cagagagtct aagcttttgt caaaatttta tgagctggag ttaaataatcc aaggccacaa 180
acagttaaca gattgtatct cggaattttt gaaggaagaa aaattagaag gagacaatcg 240
ctatttttgc gagaactgtc aaagcaaaca gaatgcaaca agaaagattc gacttcttag 300
ccttccttgc actctgaact tgcagctaata gcgttttgtc tttgacaggc aaactggaca 360
taagaaaaag ctgaatacct acattgg 387

```

<210> 890

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 890

```

ggcaggaggt caacggggag gtgcggagtc ggagagacag catctgcagc agcgtgtcct 60
tggagagctc tgcagcagaa acacaggagg agatgctgca ggtgctcaaa gagaaaatgc 120
gactcgaagg acagctggaa ccttgtcact ggaggcgagt caggcactta aagagaaggc 180
tgagctgcag gccagctgg ccgccctcag cacgaagctg caggcgagcagg tggagtgcag 240
ccacagcagc cagcagcggc aggattcgtt gagctcggag gtggacaccc tgaagcagtc 300
gtgctgggac ntggagcgag ccatgantga ccttgcagaa catgctggan gcaaaaaatg 360
ccagctggcg tcgttccaac aacga 385

```

587

<210> 891
<211> 448
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<400> 891
aaaccttaca aatgtgatgt atgtcacaaa tccttcaggt atggttcctc ccttactgta 60
catcaaagga ttcataccgg agaaaaacca tatgaatgtg atgtttgcag aaaagccttc 120
agccatcatg catcactcac tcaacatcaa agagtacatt ctggagaaaa gccttttaag 180
taaagagtgc ggaaaagctt ttaggcagaa tatacacctt gccagtcatt taaggattca 240
tactggggag aagccttttg aatgtgygga gtgtggaaaa tccttcagca tcagttctca 300
gcttgccact catcagagaa tccatactgk agagaagccc tatgaatgta aggtttgtag 360
taaagcgttc acccagaagg ttcanctgca cagctcagaa aaccctacag gngaggaaac 420
cttatgagtg caaggattgc ggtnaagc 448

<210> 892
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<400> 892
ggaacagttg ntaagaataa tgtgagttcc tatctgaaat agaatggtac attaccactt 60
ttaagtttta aaaattgata gatgttcaga tgtatctcaa actcagtttt atttttattc 120
caaataattgt gaatgagaag ccattgtcct aaactttggc catttttgtg ctataaacat 180
gcatttttta gttataagggt gaatcaaaca atatgtaata cagtattagg atgtaatctt 240
tgcttttgta gtactgttaa aatagagaat tatgttgttt gcaccgtctt aattaaaatt 300
cttgattttt actagttgct ttgcaaaaaa aaaaaa 336

<210> 893
<211> 1555

588

<212> DNA

<213> Homo sapiens

<400> 893

```

gcggacggtg ggtcgaccca cgcgtccgct actaacaact taccacagtg cggagactgc 60
tttctgaaaa ggccactcac gtgaacacta gggatgaaga tgagtrtacc cctcttcac 120
gagcagccta cagtggacac ttagatattg ttcaggagct cattgcacag ggggccgatg 180
ttcatgcagt gactgtggat ggctggacgc cctgcacag tgcttgtaag tggataata 240
ccagagtggc ttcctttctta ctgcagcatg atgcagatat caatgcccc acaaaaggcc 300
tcttgacccc ctgcatcctt gctgctggga acagagacag caaggatacc ctagaactcc 360
tcctgatgaa ccgttacgtc aaaccagggc tgaaaaacaa cttggaagaa actgcatttg 420
atattgccag gaggacaagt atctatcact acctctttga aattgtggaa ggctgtacaa 480
attcttcacc tcagtcttaa caattctagt aattttctta agtttctaaa taccagtgcc 540
tcctgtgtgt gagatgtatt ccataaatca aagttgacgt caaacatctt actacaaaaa 600
ttcagtgaac taattataaa cattcttcca agtgaattgc ctgactttra tgtcaaaatg 660
tattgaaag taatttgcac atatctttaa ttatttctgt ggagtttgtg atttttttat 720
cagaaataat tttaatgtgt gtatacttaa aaacttgaca cgggttgtag agaaactggg 780
atttttggtg ctgatacaag agaaatgtat ttttaaatat cccacatcct ggatctttgt 840
tggttattta gtatattgac atatattttt ataaggtgag gtaactcaga acttaattta 900
aaagtcttaa atattctgat acaattcagc tgtcttctct accttaccat agccagttgc 960
tttcatttta aaccagagca agtaacatat tagtgacttg aatcttcata agttaaagta 1020
aaaaacagca aaaaacctag atctttgtct tttagaacac agaccatttt caggaaagca 1080
gttagctaag tgtttaattc atgaatatgt tatactgcac cccctaccac aatttacaca 1140
atcctgtgga tagtcctacc tcaccctggt caacctacat gatccttaag ctaatggcga 1200
atcacgatga cctgttagac atgcacacaa ctataccttt gtccaacaga tcataatata 1260
tctgctatcc aactggtttt acctgcctaa tctactgat ttgggcaactg cttgtatagt 1320
ctctcaagtt cacaggaaat gttgattttc taaggctctc atttttacag agtatacagg 1380
caaagtgaca ggggaaaagg aattagtcta agagtaaggg gatgattatt atattgaggc 1440
taaaaccaca aagtggctca ggcttttaaaa aaaaaacact gtggataatg acaaaaagca 1500
taagtaaaaa tatttgagaa aaataaagta caagttttga mcaacaaaaa aaaaa 1555

```

<210> 894

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

589

<220>
 <221> misc feature
 <222> (75)
 <223> n equals a,t,g, or c

<400> 894
 actcncgggt tagntggtac gcccgcaggt accgggtccgg aattccccggg tcgacccacg 60
 cgtccggnaa aaaanatgga aaaagaccca agcagattgc ttctttgggc tgctgaaaaa 120
 aatcgggtaa aaaaaaaaaat tacagaggga agtgtgacag taggaaaagc actgggttca 180
 agccagaaga cctgccttta ctgttatggc catcatacct atctcttgat tgtgaggacc 240
 aaatgagaca atgtacatga aagcacatat taagctgcaa agtgtcatgc tagcttacca 300
 caattttacac aatcctgtgg atagtcctac ctcaccctgg tcaacctaca tgatccttaa 360
 gctaattggcg aatcacgatg accttgtaga catgcacaca actatacctt tgtccaacag 420
 atcataatat atctgctatc caactgggtt tacctgccta atcctactga tttgggcact 480
 gcttgtatag tctctcaagt tcacaggaaa tgttgatttt ctaaggctcct cattttttaca 540
 gagtatacag gcaaagtgac aggggaaaaag gaattagtct aagagtaagg ggatgattat 600
 tatattgagg ctaaaaccac aaagtggctc aggctttaa aaaaaaacac tgtggataat 660
 gacaaaaagc ataagtaaaa atatttgaga aaaataaagt acaagttttg aacaacamaa 720
 aaaaaaaaaa aaaaaaaaaa aaa 743

<210> 895
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 895
 gaggcagcct tgggtgaggg cttccccacc cgcttgcccg acttgaaggc ggctcgctgc 60
 ttgcccccca gtttgtctgg ggggtgcaggg gtgggtggtca ggcctggggg tccgggcgtg 120
 cgggggtcac tcagggccgt gagagaacga gtacacat 158

<210> 896
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (298)
 <223> n equals a,t,g, or c

<400> 896
 gatactgagc gtgcgccccg ggttctcgcc gccttctctc cgccgagcag cccttcggcc 60
 accctttgcc cttaaaaaatc tgcagactgc gcctcctctc cgcgggagcg agacctagca 120
 ggccccgggc tgggcgtgcc ctcgcctgcc acgctgcgcg ctgcyctcag cggggccgct 180
 ggggccgtgc agtgcaccgg gcacgccgcg ccaggctggg ggcaggcacc gagcctccgt 240
 gggagggtccc gaggcagctt cgctgctcgc cctggctcca gccctcacct gccgcagnct 300
 tagctgarca gmcgcgmcaac tgggcgcccc cgt 333

<210> 897
 <211> 696
 <212> DNA

590

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 897

```
gatngagggc cagacggctg ctacccaggt atcctttctc tttggaattg aaatgcagag 60
aacattatta aacagcctat ttgctgtgag tgtggaagtg tttccacaga cacctttttg 120
ggaaaaagaa aagggcaaga atcaacctga aaactacaga ggatatatta gccacggttt 180
gcacgcattc tgcttatgga tctttcagtg actccagtgga ggggccatct gtcccatcca 240
gtgcctgagt gcagccccc cccccacctt tgggtccagag aagtctttgc cccaagaatc 300
tgcccagagt tggggcatca gcccctacag gtgtgggtcc ttcttcagga ctgtgtggaa 360
cttttccttt tgaagaactt tcctggggat gaccactctg cttggagtct ggggtggagc 420
ctggtgtgag ggagccagcg tagggttttg gtgcctgccc caccctcaga agcaggagcc 480
cagcagccct tggactgacc ggtgctgtty tggggctccc actggctcct tccactgtgg 540
agcactcccg tgaacactgc tttggtttga gtaccagtac aagtgttggg tgtatgttcc 600
tgaccttgag gcattyttga ttgkgcagtt acctagggtg tgcttgtgtc tgacatgatc 660
atTTTTTTTT ttttaataaaa aatggcatgg aaaaaa 696
```

<210> 898

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 898

```
gcattggcct tgggctggta actgttgaag tcagggtgat gggacagaaa gggttcattgt 60
tctatttttg ttcccttttat atggctcatc acagagcttc aacagcatgg ccaggtgac 120
acagagcagg gtcctcaggg cttgtggctt gtggcagcat caccctcaga ctgacactgc 180
tgaggagccg ggggcggtta gctgcaggtg tgcctggctg ggtactgagt ggaaagcctt 240
gggcagaatc ttcatagaag tctagagttg gggagagttg gagggatatg taagtgaag 300
gtgtatacac ctggaggctt cccagggccc tncactctcg ctctgctctt cggttgaggc 360
agatggcact gctggctgtg gagggcctga tttgtaccac cttccccggc kttatgatgg 420
agcaggggacg acaggctctg gctttgggac 450
```

<210> 899

<211> 827

<212> DNA

<213> Homo sapiens

<400> 899

```
ggaagaatcc gatggtggct ggcgagggcc aagtctctta cgccttcccc tcgtttctcc 60
ctccccgcct cctccgcaga agccgagcgc caaactcaaa ctttatcagg acccgacct 120
ctcaggctaa tcccaggggc cgggctgtt gggcttttct gcacaccagc cgaggcagcg 180
agccaacatg agccaagtgc tgttccacca actagtcctc ttgcagggtg aatgcaaaga 240
```


591

```

ctgtgaggag aggagagtaa gtataagaat gagcattgaa ctacaatcag tttctaatacc 300
agttcacaga aaggacttag ytattcgtct gactgatgac acggatccat ttttttatat 360
aaccttgтта tatctgagga agattttcaa agkttaaaat tccagcaagg tcttctggta 420
gacttcttag ctttccacaa aaatttatag atctmcttca gcaatgtact caagaacatg 480
ccaaagaaat tccaaggттt ttgctacagt tagytctcca gcagctattk tggataactc 540
acctgcattw kkaaatgtgg tagagacaaa tccttttaag catcttacac acctctcact 600
aaaactttta cctggaaatg atgtggagat aaagaaattt ctgcgaggct gtttgaaatg 660
tagcaaggaa gaaaaattat cattgatgca atcactagat gatgctacta agcaactgga 720
ctttacacga aagacattag cagaaaaaaaa acaagaatta gataagttac ggaatgaatg 780
ggcgtcacat acagcagcct tgacaaaacaa gcattctcag gaactga 827

```

<210> 900

<211> 755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (725)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 900

```

gtcccttaaa ttctgatcat gtaggacatt cttctttgcc ctgggcctgg gaaaatgcag 60
catgtccaga gcaaaagttc taatgaggga actaaaccag tgggacccaa accaatgtcc 120
tggtcactg agsacccgtt agaaccaaat ctctgggtgt ggacaggctc ccatacttw 180
caaaaattcc cctgatgact aatgaacaac cagrggtaag aaccagtggc ccagaggaat 240
aaccagccca gctgttgtag gagctcgcta agctggctca ggtcaatgtt gaattctctg 300
ctaggcagct cctcataaga actggcagag atggttctta cacaacaaca ggtgacaact 360
ccagactctg ccggaagttc caggatctgg gttcccggac aatgcatgac actcagtccr 420
gcattgcagg tggaagagcg acggtgaaaa gaccraagtc aattaaaatg tgttaaccaa 480
aacaggaaac atgagtgagg tgattgagag tgtgtttaac ttagatgtgt gattttatca 540

```

592

```

atacttttcat tgttcaaaaa ctcttatttt ttaaagatat tttcaaaaaca aatccaaact 600
ttactttttca ttccaaaaaaa aaaaaaaaaag ggcggccggt ctagaggatn caaagcttac 660
gtacgcgtgc atgcgacgtn atagctcttc tatagtgtcc ctaaattcaa ttcctggcng 720
tccgnttttac aacgtcntga ctgggaaaaac cctgg 755

```

```

<210> 901
<211> 659
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (564)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c

```

```

<400> 901
aattcggcac gagccgccgc cgggymgccaggssaccct ctactgccgc gtcttctctgc 60
tcgacgggac cgaagtgaac gtggacctgc cgaaacatgc caaaggccag gatttggttg 120
atcagattgt gtaccacttg gaccttgttg aaacagatta ctttggcctc cagttcctcg 180
actctgcccc gggtgcgcac tggctggatc atgccaaacc cataaaaaag cagatgaaaa 240
ttggacctgc ttatgcttta cactttcgag ttaaatacta ttcttcagaa ccaaacaacc 300
ttcgtgagga gtttacaagg tacctgtttg ttttacaact caggcatgac attctttctg 360
gaaaattgaa atgcccttat gaaacagctg tggaattagc tgctctctgt ctacaagcgg 420
actttgtgtg agtgcgagct tccagaacac acaccagagc ttgtgtctga gtttcgggtc 480
attccaaatc agacagaagc aatggaattt gatattctcc agagatggaa agagtgcagg 540
ggaaagagcc ctgcccaggg cggnaactct cctatctgga atgaaagcga agttggctgg 600
gaaatgtatg ggggtagaca tggcacgttt gttnaggggg gaaggagatg ggctnttga 659

```

```

<210> 902
<211> 597
<212> DNA
<213> Homo sapiens

```

```

<400> 902
gtattgacca gaaataaact tttaaagtat ctgtgatgtt tacaaggata tgtctaaaac 60
gtttattaca ttatttttct cttaatgtga attctccacg tttgaaactg taactcgttt 120
tctcattttt tgttcttctt gttacttctc catatttgtt acttggaat tacctttgtg 180
aatacttgag aaattcgttc ttatatataa ttaatataaa aagtttgcat ttctcaaaaa 240
catctctatc aaagcctgtg ttctcacgag tttaatatca aagtcttaat aaaataatca 300
caactacca aatgcttata aaatatgttc gattactgga tttttattca ttaaacagaa 360
ttaattttat ttgacatatt taaaggcgcc atttagaaat aaaawtgctt attatgttgc 420

```

593

```

aatactgtat ctatttcagc ctctacaccg ttttctttt tgtttcacct gaaactagtt 480
ttcccttccg ttttttttct tgttctatca agctaataa tatatcaaca tacagtaatg 540
gggtgctggg ttttgtaagt taaatatgta cctgcattaa ataaatagta aacatgt 597

```

<210> 903

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<400> 903

```

nactaccatt gagaaacaag atcctcatgt tgtcctttga cttgagagtg ggtggcctgg 60
gccccaaaggc cgaccgtttg gaggagcttg tggaggagct ggaagcagcc ccttgctgtc 120
cgctttttgga ggtgggggtct gttttggacc tcctgggtca gctggcaggg agtgggtccc 180
ctcaagttct gccgagaaaa cgagactact tccttaacaa caagcatgtg gggagaaacg 240
ttccgtacag cggctatgat tgcgacgacc tgantgtgtt tgagatggac gttcaatctc 300
tgatctncag anaagagtg 319

```

<210> 904

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

594

<220>
 <221> misc feature
 <222> (554)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (575)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (588)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (642)
 <223> n equals a,t,g, or c

<400> 904
 aagtcaagat caacaggaaa actgcatttg gaactacaac tcttgtcttg actgatttta 60
 gcaataaatc cagtactttg gaaagaaaaa caaagcaaaa ccagatacta gatgaggagt 120
 ttcaaaaactc tcttcctgct agtgtgtgtt tgaatgatat acagnacccc tccaagaaga 180
 caacaaacga tataactcaa ctatncagca tagtaaacad atcacctaca atcagttcag 240
 aatctaaatt atttagtcca gcacataaaa aaccgaaaac agcccactac tcatcaccag 300
 agcttaaaag ctgcaaccct ggatattcta acagtgaact tcaaattaat atgacagatg 360
 gccctcgtac cttaaaccct gacagccctc gctgcagtaa acacaaccgc ctctgcattc 420
 tccgagttgt gaggaaggat ggggaaaaca agggcagggc agttttatgc ctgtcctctt 480
 acctaggagg aaggcacaat gtgggatttt tttggaatgg ggcagatttt gttcctttcc 540
 ctttctggca accnggggca aggcgtttcc caccntggaa aacagttntt ggaaggtttg 600
 ggaccttaac attggggaaa ggattttttt tttgttgtgg tnccttttgg ggg 653

<210> 905
 <211> 727
 <212> DNA
 <213> Homo sapiens

<400> 905
 cacggtggaa gggctggggc cacggggcag agaagaaagg ttatctctgc ttgttggaca 60
 aacagagggg agattataaa acatacccg cagtggacac catgcattct gcaagccacc 120
 ctgggggtgca gctgagctag acatgggacg gcgagacgcc cagctcctgg cagcgtcct 180
 cgtcctgggg ctatgtgcc cttggcggggag tgagaaaccc tccccctgcc agtgctccag 240
 gctgagcccc cataacagga cgaactgcgg cttccctgga atcaccagt accagtgttt 300
 tgacaatgga tgctgtttcg actccagtgt cactggggtc ccctgggtgt tccacccct 360
 cccaaagcaa gagtcggatc agtgcgtcat ggaggtctca gaccgaagaa actgtggcta 420
 cccgggcatc agccccgagg aatgcgcctc tcggaagtgc tgcttctcca acttcatctt 480
 tgaagtggcc tgggtgcttct tcccgaagtc tgtggaagac tgccattact aagagaggct 540
 ggttccagag gatgcattct gctcaccggg tgttccgaaa ccaaagaaga aacttcgcct 600
 tatcagcttc atacttcatg aaatcctggg ttttcttaac catcttttcc tcattttcaa 660

595

tggtttaaca tataatttct ttaaataaaa cccttaaaat ctaaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaa 727

<210> 906
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (608)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (659)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (731)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (754)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (775)

596

<223> n equals a,t,g, or c

<400> 906

```

agnccatgtc caaggcgtgc ttntntaact tattccatta atactctttt tcacttaggt 60
acatctctct gtctttggag cttccaacat ttttcccttt taattttatt taaaaatgtt 120
ttcttccttc atttattttc ccccccataaa acagtatgac aaagggtttg attcagggag 180
agaaaggata tatgaagaca cattcttccc tcttctattc tcttccctgg ttagaaataa 240
ataggcatat agtcctgttt attatgggca ggaaggtagg taaagatcac ctaagtgtt 300
atggcgtgtt ggctttggca catggagaat gagtttttga tcttgttttc tcggcatgtc 360
tgtttcatga gatgagcctg taggaagagt tactaggctc cctgactaag cagcccgag 420
tcttgaccww ywkcaggctg tcaacaatcc taaatagcat atttattacg gactcaaaat 480
gaaatcttra aaaacaaaaa cacaatatat atgtcactgc atggacatcc atcacttttt 540
ctgagcctgt attgcctctg caaaacatta tagcagttac ttagagggaa ggattttttt 600
ctagcctnct ggtaacaggc tccattcaga actttctcga catcttatat caatacttnc 660
tacatctaca agccccagaa atctctatgg tctacttggt aatggctatt taaaagcttg 720
aggcacagcg naaaaagcta accataagaa aagnaatttg nttcttctaa atttnaag 778

```

<210> 907

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<400> 907

```

gagccagatt gcccaactgca ctccacctgt gcgacagagg ggctgtgtc aaacaacaca 60
aacaacaaaa agagcaggkt cataatcaca cagcagtgcc ttatatagtt gccataagac 120
ttcagtgcag tacaacataa ttttacagct acatatcagg gcatattcta tatggtgtat 180
ttgtgttaga ataacacatt aaatgtcttt aaacataaaa ataagaatgt ttgcatgttt 240
cagttttcaa gaaccaaatt agtaattagc tatagattcc actggcctta aacatacaat 300
taagtgtata catgatatag tgcacacaca aaagccacct ttaattattg aaataacctg 360
tattcttttt ggaaatcatt taagtgttgt attgaagtac tatatttttt gtgcatcaat 420
gtatttttct atttacaagc ctatgtaaaa gtgaagtgtt tcttcagtga accatgtgcc 480
aattaagctg taataaaaaa gtggtctagt ctgtcaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

```

<210> 908

<211> 378

<212> DNA

<213> Homo sapiens

<400> 908

```

gtttgcagtt agaagcaggt gttgtaacat ctattaaatg attttataaa tcttgggttt 60
tatcacattt gattaaatgc tgctaagcca ctgatggtea attccagagg aaaaaaaaaa 120
tttaatgact acagttttata aaattaatca ccaggcaaaa ctacatatat aaaatgtcaa 180
aaggcttgaa tcatgaaaag aattcctcaa ccttgttacc aaattattgt tttcaggatt 240
caciaagcat gttatatatc catttatatt tcagtttata catatgactg gtttctattc 300
ctgagactta agtaagtact tgggtgcgctt tttcttttgt tacaggtcag aaataaatca 360

```

597

ggataatgaa aaatagaa

378

<210> 909

<211> 693

<212> DNA

<213> Homo sapiens

<400> 909

```

aattcggcac gagagaaaaa gaaaaagaag gttaatcctt cagttatgga ggtgggatga 60
atagagcttg tttgatgtta aagtgggtaa ggagggagtg gccttgagac acttgatttc 120
caaaactctcc tggaggtttc cagtagcact actgttccta aaagggtttc atttttaact 180
tcatctgttt tgtaaacatc cagtccaatt gaggtgatct cagaggtgca tcaggacatc 240
tagcactggg gaggccacct tgcccagata gttgaaaaga aaattggtct gggcagcctg 300
ttgtcttttg tcttcattga atgttttttc tttgttttaa aggactaatg tttattacag 360
tgtaaaataa aagtgtgaaga tactaagtgt gtagaataaa agtgcaataa caaaagacaa 420
tgactttggc acacacttca gtctttatcc tctctccttt cttgtgctac ctggctcttt 480
ccataatatt gttacagcag gaccgtctta attgtgtgca ttttgaagag atgcgactct 540
gggttaatat tcattagtgt aatattgaag gggtggggtt ggttttatag agtattctgt 600
atacttgttg ggatacacaa ataccagatg tgctgtataa taaagatcac attaacgttt 660
waaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 693

```

<210> 910

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<400> 910

```

ggcacgagct gacccggaat ggaggaggcg gaggagctgc tcttggaggg gaagaaggcg 60
ctgcaactcg cccgcgagcc gcgcctgggc ctggacttag gatggaaccc ttccggagaa 120
ggctgtacgc agggcctcaa agacgtccca cccgagccga cccgagacat cctcgtttta 180
aagagccttc cccgggggctt ggcccttggc cctcactcg ccaaggaaca gcgcttgggg 240
gtctggtgtg tcggggamcc cctgcagccc rgygcatgg ntacctggcc aagaagttac 300
acagccccag tgatcagttc ccacccagag caaagaaccc agagctggaa nccaacagtc 360
tggntttcct a 371

```

<210> 911

598

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (676)

<223> n equals a,t,g, or c

<400> 911

```

ggaacttctt aattgtaggt tcctctgaag cgatttcatg tagatatgtg agtgtttttaa 60
acaagtctga aagtgttaca tacttttagg ttacaggggt gctggggaga cagctgagga 120
aaggaagaat atgtggaaga caccacggag ttcaaagttt taccctgagt tctatcttcc 180
atgtatgttt tgcttaaggc atttctcatg tgacattaga aaagctatat ccaaagggtam 240
atTTTTtTgtg gcaaagattt attttacct ttaacttttg ggattttatt tgtttcagca 300
aaataaagag cactgaactt taaacttgaa ttttttctgc acttttttag gtmatgaaaa 360
ctttttatta tcatttaatc cacatkgctc agtttaaacc aagtgatata tgtgtataaa 420
acataccaaa atcatgaata tgctgctagc tgtaccttaa ataaactgat cagtttttaa 480
acctttaata gggttttata tagatwtwwa aaatagtaaa ataactctgct gtatgtttca 540
gtgttcttgg tcttaaatta ttgcaacact ttcagatttg atntaagatc atacagtaac 600
atgttatatt tatacatact gctagaaaat atacttttag ttttaaatg gaatttttat 660
aatgtactt taattntaaa atgg 684

```

<210> 912

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

599

<223> n equals a,t,g, or c

<400> 912

```

gggtgaacccc aagttaaaac cttccaaggg cttccaatg ctcttaatat aaaatccaaa 60
ctgtcccata tgatctgacc tctcccaaac tctccagcct acttttatgc cactttcccc 120
tttactctct atagtttggt catatttgac tctctcact tcttcacccc tgtkttctca 180
cagtacaatg tacatacggt tataacattg atcccactgt actgtattct ctggtttgcc 240
tttcctcact agaatgtaag ctctcagaa ggcagtgaga ccattgctta tattaccctt 300
gcactcctag tttccggcag tggtgactca aacatttggt gagtaactga gcaaataaag 360
aaaaatagaa aagacaggag aaggaagagg taggctangg gaagataatt ttgtttttaa 420
acnttaagtt ttaggtggca ctggtttagt ggaatanaaa tgcacaanaa c 471

```

<210> 913

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 913

```

gcgcgacacc anccctcact aagggaacaa agctggagct ccaccgcggt ggcgggcgct 60
ctagaactag tggatcccc gggtgcagg aattcggcac gagtaactat agcagctaag 120
catttgaatc agacttctca tagcaatggt atgggctgtc tgatatattc aggatttggt 180
gagcagataa gctgtgtgtg atcttactca ttctcagcca tgccgcagac ataccattt 240
cccttagta attttttaat acagagaatg ctattaactg ttactggata tcaaataatt 300
ttatttttct aatagtattt tccaaatatt tcttaaaatt cttaaaattt aggttaaagt 360
ttgctggtct cttacattta ataaagctgg gacttgaaga cttaccatag ttttcaactg 420
cctttgcaag ttcataaact tctaagggtg aaaagtgaat aagataaatt cagagtttta 480
aggtaaaggc tttatattag cttttttttt ttttaaagggt tttttgtggg gtttttttgt 540
ttttnttttt ttttgggatg gagtctcgct ctgtcaccca ggctggagtg cagtggcacg 600
atct 604

```

<210> 914

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

600

<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 914
ccccacaatc ctaggcctac cgcgcgcart actgatcatt ctatttcccc ctctattgat 60
ccccacctcc aaatatctca tcaacaaccg actaatcacc acccaacaat gactaatcaa 120
actaacctca aaacaaatga taaccataca caacactaaa ggacgaacct gatctcttat 180
actagtatcc ttaatcattt ttattgccac aactaacctc ctcggaactcc tgcctcactc 240
atttacacca accaccccaa ctatctataa acctagccat ggccatcccc ttatgagcgg 300
gcgcagtgat tataggnttt cgctctaaga ttaaaaatgg cctagnccat tcttaccaaa 360
anggaaa 367

<210> 915
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<400> 915
gaactttgca ttttgtasta aaaaataggt ttcttaatat atgtgattgt aatggcatac 60
aaggctttta aattcatgtg catataagat aaattttaaa tattcttaga gggttttcat 120
gaaatatcac cttcacatat ttcacagtt cagtacaaaa tgcaaaaatg tctattgnat 180
aaaacgggag atttaatcac gaccacgtta ggaatctccc agttaccctt gggaacacag 240
ccccccanag tggagacatg cttagactgg cattctgggt caacat 286

<210> 916
<211> 1060
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (684)
<223> n equals a,t,g, or c

<220>

601

<221> misc feature
<222> (819)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (842)
<223> n equals a,t,g, or c

<400> 916
gctcccgcag cgctgtcatg gcgtcctgcg gcgccggaag gactggaacg tgcgcctgca 60
ggcctttcttc accagtgaca cgggggcttga atacgaagcc cccaagctgt accctgccat 120
tcccgcagcc cgaaggcggc ccattcgagt cctgtcattg tttgatggca tcgcgacagg 180
ctacctagtc ctcaaagagt tgggcataaa ggtaggaaag tacgtcgctt ctgaagtgtg 240
tgaggagtcc attgctgttg gaaccgtgaa gcacgagggg aatatcaaat acgtgaacga 300
ygtgaggaac atcacaaaga aaaatattga agaatggggc ccatttgact tgggtgattgg 360
cggaagccca tgcaacgata tctcaaagt gaatccagcc aggaaaggcc tgtatgaggg 420
tacaggccgg ctcttcttcg aattttacca cctgctgaat tactcacgcc ccaaggaggg 480
tgatgaccgg ccgttcttct ggatgkttga gaatgttgwa sccatgaagg ttggcgacaa 540
gaggggacatc tcacggttcc tggagtgtaa tccagtgatg attgatgcca tcaaagtttc 600
tgctgtcac agggccccgat acttctgggg caacctaccc gggatgaaca ggcccgtgat 660
agcatcaaag aatgataaac tcgngctgca ggactgcttg gaatacaata ggatagccaa 720
gttaaagaaa gtacagacaa taaccaccaa gtcgaactcg atcaaacagg ggaaaaacca 780
acttttccct gttgtcatga atggcaaaga agatgtttng tggtgactg agctcgaaag 840
gntctttggc tttcctgtgc actacacaga cgtgtccaac atggggccgtg gtgcccgcga 900
gaagctgctg ggaaggctcc ggagcgtgcc tgtcatccga cacctcttcg cccctctgaa 960
ggactacttt gcatgtgaat agttccagcc agggcccaag cccactgggg tgtgtggcag 1020
agcaggaccc aggaggtgtg attctgaagg catccccagg 1060

<210> 917
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (694)
<223> n equals a,t,g, or c

<220>
<221> misc feature

602

<222> (703)

<223> n equals a,t,g, or c

<400> 917

```

gggcacatcttc cttccttgat tttaagtctt cagcttcttg gccaaacttag tttgccacag 60
agattgttct tttgcttaag cccctttgga atctccatt tggaggggat ttgtaaagga 120
cactcagtc ttgaacaggg gaatgtggc tcaagtgcac agactagcct tagtcatctc 180
cagttgaggc tgggtatgag gggtagacac ttggccctca caccaggtag gttctgagac 240
acttgggaaga agctttgngg ctcccaagcc acaagtagtc attcttagcc ttgcttttgt 300
aaagttaggt gacaagttat tccatgtgat gcttgtgaga attgagaaaa tatgcatgga 360
aatatccaga tgaatttctt acacagattc ttamgggatg cctaaattgc atcctgtaac 420
ttctgtccaa aaagaacagg atgatgtaca aattgctctt ccaggtaatc caccacggtt 480
aactggaaaa gcactttcag tctctataa ccctcccacc agctgctgct tcaggataaa 540
tgttacagca gtttgccaag gcggggacct aactggtgac aattgagcct cttgactggt 600
actcagaatt tagtgacacg tggctctgat tttttttgga gacggggtct tgctctcacc 660
caggctggga gtgcantggc acactgacta cagncttgac ctccccaggc tca 713

```

<210> 918

<211> 595

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (566)

<223> n equals a,t,g, or c

<400> 918

```

ganacnacc tcactaangg aacaaagctg gngctccacc gcggtggcgg ccgctctaga 60
actagtggat cccccgggct gcaggaattc ggcacgagct gaattagaca tattctttta 120
aaataagatc cgttgtcagc catctaaaat gtttttataa attcatactt acattctttt 180

```

603

```

ttgccggttg cagtcagcct ttagtgccaa gagagaacat tacagcatgg atgaatgcaa 240
ttggtttgat catcactgcc ctaccagtga gttaataatt gtgatttgta cttagtgatg 300
aaatacagcc agctgttcca tgtcagcaaa aagaaaaaga tgcataatagg atgcccttgt 360
acgggacgtc atgcaaatta atgaagtatt ttatgttttt aaagtttttt catattatta 420
ctgtctttaa aatctacagt gactagtttt tgcttttctg tattagatct aaatatatct 480
atgtgactta cgggtctctg catttttctg taccacctta cctatccaac tttagttttt 540
acataatagc ttgatctact cttggncact taacgtgttg tatatctaca gcctt      595

```

<210> 919

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 919

```

ggcagagctt ggctagattt gaagtgtaat agattaagga aagaaaatcr gttatattct 60
tcasaatagt ttgtctgagt tcatgcttca tgactgtcat gtgttgagtt atctttctgg 120
caagtggaaa tgacggagga gccttaacac gtgtctactg tggaatgttg ttgctaaagn 180
gtaggagaga gctggccagg cgccgtggct cagcctgtg aatcccagca ctttgggngg 240
ccgaggcggg aagatcacct gagatcaaga gtttgaga      278

```

<210> 920

<211> 347

<212> DNA

<213> Homo sapiens

<400> 920

```

gggatgcgga ccaccttttg cagaactcat atctcgagca gtttaaattg cttgtgcctg 60
ttaacaagaa tactgaccag aatgctcttc atgtagetta tacagttggt tcacttcatg 120
cggttcttga catgtttatt tctacctta atgcaatgaa atgtttcatt aataaaaaaac 180
cactttatat aaaattgctc tagaagtcac atgtcattgg atgtcctgtt gtttatggag 240
tttccctgga aagatgttcc ttgacagatg cagccctgag tcacacactt gggccatgtc 300
tgatctagag ttcgctgtag tggacagtta caatcagccc tcgtgcc      347

```

<210> 921

<211> 153

<212> DNA

<213> Homo sapiens

<400> 921

```

gttgtgaagc atgcacggga aaggcaccac ggtcaggggg gatccccgag gagatgcctg 60
agctgaagga ttgtggttgg ggaaagcgta gtcccagcaa ggaagcagtt tgtgggtaag 120

```

604

tgctgggagg tgagtggagt gagcttggtca ggg

153

<210> 922
 <211> 930
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (46)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (170)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (173)
 <223> n equals a,t,g, or c

<400> 922
 ccccaaggcc gtgggggacca atggtaaaaa ccaattacca ccttgntgcc gcaccttaaa 60
 gactggatgg tgtatattat tcacaattac atcctctttc ccatagcctg gcagaggaaa 120
 gtagttagca gcacggaaca atttcaacat ctcaactggag tctccaaaan ccnagcagat 180
 actgcaggat gtcattaagc aacttactgt cacttcacac catatgtggc agtaagaaac 240
 ttaatttttaa aattaaaagg cacgcataag ctgatttcaa atattttaag tccaggctac 300
 tctcttttaga tacaatgttt tgaacacttg tatagaaatg tttatttttaa aactgttcta 360
 tacaagtgtt caaaacattg tatctaaaga gagtagcctg gacttaaaat atttgaaatc 420
 agcttatgcg tgccttttaa tttttttttt aagttttctta ctgccacata tgggtgtgaag 480
 tgacagtaag ttgcttaatg acatcctgca gtatctgctt gcttttggag actccagtga 540
 gatgttgaaa ttgttcctgt gcttggttaac tactttcttc tgccaggcta tgggaaagag 600
 gatgtaattg tgaataatat acaccatcca gtctttaatg tgctgcaaca atgtagtaat 660
 ttgttttttt catttggttcc cactgccttt gtgtacatag aaaacttaaa aatttcccc 720
 agtctatttag aagttaagat gttccctaatt ttattaaata tgcctttatt cacaatttgt 780
 ttttttaggt tattcttaatt gcattataga attaagtatg actttgttta tttttattac 840
 agtatgtagt tattgacata ttgtggtttg cagaattatc aattgtataa actaaacctt 900
 taaattaaaa aaaaaaaaaa aaaaaaaaaa 930

<210> 923
 <211> 1358
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (681)
 <223> n equals a,t,g, or c

<400> 923

605

```

tcctaccaca aattctacat caagaagaaa gttttaaagt tagactggat ttatttgtga 60
ttttatggag cacaataagg tacattgaga tagcatacta aaggaggcca aatacaggaa 120
gcatcatctt ttcttattct cttactgcct ggattttccc actgacctgg aattgtgcac 180
agttctacaa aggacaattg acattgtttt ccttttacta agtagtgggt tttccttaag 240
gtccagactg aattttgaga cctgtaccag gattgccttc tgtgtgactt tttcttgacg 300
gatctgacat cattacctat ggggtccatat atttgtgata ctttggtttc gggaacatca 360
cttttagaat gttgacataa aatgcaccca cagaatgccg tatttatcaa aagtaacttt 420
ctagcaaaat ctacagcagt aggcatttgg aatctgcatt tgagacctct gcagtcattt 480
ggtcattcca gcaatctatg tccaggttgt caatttcaga ggtctyatta rtctatacag 540
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ataacccttg cagatgcatg cwtgttttct gcaccttgct atcatttttc artccatttt 660
tcacatgtat acatagtgat natttttaaa tgcaaccctg atttcacatg cctcatgttg 720
aaatatcgtg tggcttattg kggactwaaa gkgtaacatt cyccytawgg takgtaagga 780
cttttgtaaa aaccaatgcc tatctateya wcatttctga aaactttttc cycctakgca 840
atattttctg gcctctgtga acaacttgta gttccttgag attyctatta tcacttawgk 900
ttttgcaaat ctgcaattga aatgcccttg ttccttggtt atgcctattg aatctatatg 960
aacctgtacg tgtgtttctc actgtgataa tataatcatt gcatgtttta tctttccac 1020
tagaaagctt ctagaaagct agkactatct tttttgtctg tgtaattttt gcatcacaag 1080
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gcagtggagag agaagaatga agccatgatg aaagcaaaat caagaaagag tcccgaattg 1200
gttccagtac ctggttcttc tggcttctat gttcaggtcc acctctgccc ttttcatgtc 1260
ttgattgttg aattcttctg tgagatactc caaatatcct aataaattct catgtttgct 1320
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1358

```

<210> 924

<211> 79

<212> DNA

<213> Homo sapiens

<400> 924

```

gcccackcgt ccgcaagaca ctcatgccct ggcaatgtgg ctgccagaaa ctgggtgggtt 60
agcaacaaca ttctctggc 79

```

<210> 925

<211> 1426

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1391)

<223> n equals a,t,g, or c

<400> 925

```

tcttcactct gatgagggct cagacttgat aacgcccgtg gtgccccatc cctataggag 60
ctggtgagat tgcagcctgc tgctctccct ccatcagcca cagctattgg atttcccacc 120

```

606

```

cagaatcttt aggtaaatga gatcatgatt ctggaaggag gtggtgtaat gaatctcaac 180
cccggcaaca acctccttca ccagccgcca gcctggacag acagctactc cacgtgcaat 240
gtttccagtg ggttttttgg aggccagtggt catgaaattc atcctcagta ctggaccaag 300
taccaggtgt gggagtggct ccagcacctc ctggacacca accagctgga tgccaattgt 360
atcccttttc aagagttcga catcaacggc gagcaccttt gcagcatgag tttgcaggag 420
ttcacccggg cggcagggac ggcggggcag ctccctctaca gcaacttgca gcattctgaag 480
tggaacggcc agtgcagtag tgacctgttc cagtccacac acaatgtcat tgtcaagact 540
gaacaaactg agccttccat catgaacacc tggaaagacg agaactatth atatgacacc 600
aactatggta gcacagtaga tttgttggac agcaaaaactt tctgccgggc tcagatctcc 660
atgacaacca ccagtcacct tcctgttgag tcacctgata tgaaaaagga gcaagacccc 720
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acagttttct gtgaaatatg atgctgtatg tggttgtgat tttttttcac ctctattgtg 1320
aattcttttt cactgcaaga gtaaccaggn tttgtagcct tgtgcttctt gcctaagaga 1380
aaggaaaaac naaatcagag ggcattaaat ggttttgtat ggtgac 1426

```

<210> 926

<211> 724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<400> 926

```

ngaggaccag tatthttgtta aaaagggcat gcaggamayc ttctctgcct cctacccttt 60
ctcatctccg gctccatctc cagctggccc ccagatcctg tggcgacggg tccccatggc 120
agccacctgc tgacctatca ggactcycta tagaggaagt gtccaagtca ctacggttca 180
ttggtttgtc cgaagatgtc atatcattct ttgttactga aaagattgat gggaaacctgc 240
ttgttcagct aacggaagaa atcctctcag aggattttcaa attgagcaaa ttgcagggtga 300
agaagataat gcaattcatt aatggctgga ggcccaaaat atagccaaat aacccccggc 360
cagcatggaa caaaaactgat caatgcgtgt gctagaaggg gtgggctggg acacaatttc 420

```


607

```

atgttttttgc actaaaaaacc ttctctgttaa ataggggataa gagaaactct tactatgcag 480
attacgttttt tgaatgggtga acagggtatt ttgtacatca ataaaaatgc tgtacagaac 540
acttgagggt gtgccttgta cgtcactcaa caaacactca gcagctgcta aaagaaaaaa 600
aggcatgtgc agagaaatca ttcttaccga agtaggttta tgtgagaagg tatgatattt 660
attacaaaat agccaaagct gaaagacata aaaatcttta aaanaaaaaat aaangggcg 720
cccg 724

```

<210> 927

<211> 641

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 927

```

tnaataacat caatgatgac tcctacagta tatttagtaa aagtgagaat gaggtaaaaa 60
gccctactat gtttttaaat agcaagtgt agctcagtgc tagagtggat atacacaccg 120
catgttttca tatgtggcac ttttatgtat catgttgggt tattgttcta gactggactg 180
ttaaatacta tgtttgaggc tgggttgta tttttataac tgtcttggtg ttttatggcc 240
attatttatt acttttgata cacagaatga gctgcatgca tttatagagc aataagagga 300
tgtatttaat gtgccttggt ttttaactgaa taagaactgg aagcatgaat caataaaact 360
gattaaaaat gtctatttgc tagcattttg atgttacttg cagtcagata actttgatta 420
ctgttgaagt ttaaaaaaag tttgaaaata tttttacaaa ctgtgttttt gatgacacaa 480
aagtgaaata tctacagaga tagatgtaat tttataagac tgccagaatt atttgtatta 540
atttgttgct gtagccttta gggcatgact tctgtatttg tgcaatccta ttctacaatt 600
acattcatcc tattacaact caaaaaaaa aagtcgacgc g 641

```

<210> 928

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<400> 928

```

cagctccac catggcggag accaagctcc agctgtttgt caaggcgagt gaggacgggg 60
agagcgtggg tcaactgccc tcctacctgg acagcgcgat gcaggagaaa gagttcaaat 120
acacgtgtcc gcacagcgcc gagatcctgg cggcctaccg gcccyccgtg ccccccgct 180
agcgccccac ccgcgctcta tcgccaata aaggcatctt tgycgggaaa aaaaaaagna 240
aggaa 245

```

<210> 929

<211> 297

<212> DNA

<213> Homo sapiens

608

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 929

```

agagcgagac tccatttcaa aaanaaaaaa aaaaaaaaaa aatcacttgt agtcttgggtg 60
tggtatcaaa gaatagccac aattagctga aaaggctatt ttaaaaactt ttccaactgc 120
gtatctgtgt gaagtcaact tacttcaaca aaaaagtttg gatgtagaag cagctgtaag 180
aattcaactg tttattataa caagatacta aagagactgt aaaatgccac ctttctcctt 240
ggwttgtttt ggaagttatt cttcataaaa aatgttaacg tgggctgggc atgggtgg 297

```

<210> 930

<211> 579

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<400> 930

```

gctcgtgccg ttgagaattg tataaggact gtattgtata ttgtatgaga ttgtagatcc 60
aggatgagtc acagtatttt tgaagttgta gtaaattggaa tgaactagaa agatagaagt 120
taatgttcgg aaggcaggag acttaaaagt tagattgtaa aaatttgcaa ttaggagtaa 180
taacgtgggtt tgagctgaga tcatgagatt gaatagctag atactgaaga tagcaagtac 240
attggaaatg atgagggtcaa atgtcaaaga agataagtaa tttaaatgag acatcaaaat 300
aatggcagtt aagtcagggt gtaaagactg caaagaatga gggaaagtga ctaaacattg 360
ggagagtgat caatataatc aaatagtatg agattccaag ctggaggggt ttgaggagaa 420
ggaagtagaa gtattctgca agaggacact tattttactt ctagaggcag tggntagagc 480
actgagggtt gagaactant ctgcacttaa ggggcgacat gagaagcagc agcatcagtg 540
agagacagat gaccataaga atgaaaatgt nnagggaaa 579

```

<210> 931

609

<211> 670
 <212> DNA
 <213> Homo sapiens

<400> 931
 gtttgaactt tgaaaactgg gcaacgggga gaacctgtctg tgaaacagac agctttctat 60
 tgtgtctaga gtagcgcaga ctttctaaga aatggatgtg gatagagtat gtattggtgg 120
 catgcgcctg tagtcccagc cacttggagg ctgaggcagg aggatcattt gagtccagga 180
 gcttgaagct ataatgcgcc accatgtctg tgaatagcca ctgcactcca gtctgggcaa 240
 catagcagga ccttttctct taaaaacaaa aaagagttcc ggtgaaatgg ataaagcaga 300
 ctgggaagga cgaagcctgt kgggctgggtg gggctgagtc ccaaccagct tcatcagtgg 360
 tgatcctttt gaacttgtac caaagtttcc agaacagagg cggcatggat ttacccttgt 420
 gtgatgtctg atctcagaga tgggactctg tgattggcct ttgttgaact gacaggtatt 480
 tgaatgtgca catcctacgt aggacatcgc attgagtgtg ggcatagtgc cagggcagct 540
 tgcctcatcg ttaccaaacg cgtttccttg gatctgtcat tctgtccatt gtgctttctc 600
 ctgttactct agcagttcag tgaatgtaag attactactc tgtatatgga actttgaaaa 660
 caagaatgaa 670

<210> 932
 <211> 1755
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (8)
 <223> n equals a,t,g, or c

<400> 932
 gactaggnga agatgctcta gaatttamcc aggtttttaa atcagtaatt targatttct 60
 aaccattkga acaaatttta cttacatgta tgcacatgtc atttttcgtg tttctatattt 120
 tatgttctca aaggtaggat aagggaagga aggaggaaac agcccatctg gggttcaaga 180
 gctagctctg ctaagggctt gtaagctatt tctattctgc cctttggtct ttttcttgtt 240
 tgtcttgtct ttatttttaa atgaaattct tgaagctatg tattgaattt tctagtatag 300
 aggatgtgac ttccacctcc aaattccatt taactgattc ttttaaaaga aagataggcg 360
 tatatacacc acgccaaaat aataataagg tacctatgtg agaattgcaa attatacccc 420
 agggtagcat ttaggcagcg tcggcaaaaa gtgagttaat aaatcagaag ctacatatta 480
 aaaaaaaaaat cagtcaatcc gtcgtgtgtt taawtcttgc cttaaagtaaa tggagatatt 540
 gttttgcttt ggtaaccagc aatttttaat ttttttttat tgcccgcaa ttgagattgt 600
 ttgttataaa tctgttgatc tagcagcaag tagaattatt caactggaat cttgtattct 660
 attcagagct taattttccg ttaaggaaaa aaatgagctt cagtttgtgt tgtgatgtgt 720
 ataatttgca tgctgaatca caacatgctt ggagagattg tagagactct ttggtaaata 780
 atctaacctt tacaatttyc cgtttatatg ttaacmtttt tctataatat gagtgccttt 840
 ccaatgcaca gatatttttt atggctgtaa tttctctgta aaaataattt ttaagcatac 900
 attttattct ttttttgcaa caaccgagat tttccaaga ttgttctgtt tcccccgcc 960
 ctcttagctc ccgccccgt cacttcggcg cttgtatttt ctaattattc atgggtgcca 1020
 tgttgagtgt ttgtaatttg accaccacag gtaagcttcc tgtttacttg aacactcagc 1080
 ctcatctccg gtgaatgaag ggaaaagcac agatgggttt ctcccaggca cagctcactc 1140
 caaagggtgtc ttcatagagc caaccagcc tttctcaagg gagcatttcc ccacttaatg 1200
 tgtttatcag catctttctt ccgccaagaa ttcaagagca ttttcaaat tgatagattt 1260
 tgggtgcagtt ttgcaagttt ccgtggaagg ctgtctcccc cttctgggat ccacccccat 1320

610

```

gtcgggacca gatcggtgc agggagtcac gtttatgaaa tgttggtggt tttttttttt 1380
ttttcattca tactagaagt gtttttataa cgaaaatctg cactttacaa ctctgcaggc 1440
catgcatgca atggtgattt acagccttgt ttacgtgtaa ttcctccagg tgatttatcc 1500
caatttatgc aaagatccta ttttaaacag acacggagaa gtggttaaccg tttcctaaca 1560
gcagcaagaa tgccccctcc gtttgcctgg tgaaaagaac tgacattaac agcagcttgg 1620
aggcttcgag gaggtgggga cgtggcctga gctcgggacg ggggcccagt gcgggttgtc 1680
ggagcgtggc tgccccggca tgtctctgta tttatcaata aatctcccgg ttgctctggg 1740
aaaaaaaaaa aaaaaa

```

<210> 933

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (687)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (690)

<223> n equals a,t,g, or c

<400> 933

```

tttcacgcg tccgccacg cgtccgccca ngcgtcnng cagggcagag aatcccccca 60
attcctgct gaaatctctg gcctcacccc tgctgggggt tggactgaaa accctcctcc 120
ccaatttggg ggggtgttgc ccatcactgc ccagctcctc tgactgcccc ccctgaattt 180
agggtggggg tactagtcac tgccaatgtg tgtatgggac ttgctggaaa acgggggatgc 240
ttgcccctct ccaggactat tgagcccaga gagagctgtc ctctcattgg gtgaactgat 300
tgaggaaggg tctattgtct ttttaaatgg cacaatttta agggtttgag ggtacagtcc 360
cttaacctgc cacgggaggg gggcccaaaa ctttcttccc cccacacttc tggttttctg 420
tgtggagggg gagcagggat atctaagctg tgggtgtgaaa gggtaggaga gatgctggag 480
gtgggggtgc tgtgttctag acccccata ttatcccagt gtcccctgcc cccctcttcc 540
cccaccccat gcccctaatt ctgtggcgca tccagattgt gaaaatgtac aataaatgtg 600
taatgagtaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660

```

611

aaaaaaaaaa aaaaaaaaaa aaaaaanttn

690

<210> 934

<211> 1711

<212> DNA

<213> Homo sapiens

<400> 934

```

cgagatgtac cggtagacagc aggacgagga ctcggagggc gaagagaaga gcgatgggga 60
gttgggtggtg ctcacagact gatccccggt gggtagggccy ggccccctct cctctgggga 120
agaccttgtc ccaactcgat gggcacagcc agccaacct agactatgtt ggtacttga 180
cttgttcgtg cccagagat gggcaaagct gtgcacttgc agatacatc atgaggggag 240
aggcgccctc ccttcctgag gagctgttgg cctgggtggg caggaactgc agtatggyca 300
tgggctgagc aggtgagca cctcagcctt tagggcttat ggccagggga cactgtatga 360
ctctcctctc ctgcaggtgt ctatccacct ggggtatggc atctaccgac ctgtctccct 420
ggggtcacat gctttgtttc cattcttgtc ctggctggac cagccactgt gggaccaaca 480
cccctyccac actccccag actgctcgtc tatcaccagg atcgctttgt actttgtgca 540
aaagggctctg gctgtccctt gctgttttca tctctgcaag cctattgtgc ctctggctgc 600
tgtatgtgtg cgcgtgcacg tgtgtgtgtt tcatctgkct attcactgca caagatattt 660
awtgagtgcc cactacgtgc caggcactgt tgctgagttc ctgtgggtgt gtctctcgat 720
gccactcctg cttctctggg ggcctctttc tgtgtctctc tttgtcccca aattgctacc 780
tctttgtcag tctgggtgtc tcaggttctg tgtgtccttg tgtgcatttc tgtctctctc 840
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cctgtgccct ctggattctc tgggtctatg tagggccctg gtctgccctg gctcatcagc 960
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tctttattcc tccctcatga gcacagggtc ggggggggtc ccattcttgg aagaggttga 1260
gaagactcct gggttcagc ctctccacc cagccctgcc cctcacctgc ctgccctccc 1320
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tctccatcct caaagcccc acttctctcc aggtgtttc tttttttatg actgtaaaca 1560
tagatagtgc tttattttgt taataataag ataatgatga gtaacttaac cagcacattt 1620
ctcctgttta cactcggggg atttttttgt tttctgatga cataataaag acagatcatt 1680
tcaraaaaaa aaaaaaaaaa aaaaaaaaaa g 1711

```

<210> 935

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 935

```

tgaatctttc attcttacct gaataatttc acactctcca ttactctngg tctcctaag 60
gtctcctgtg gagagtgaat atttccatcg cacttacttg ctactttcaa tgttctcaat 120

```

612

```

gtcctattgg actcactagg gcttagctct gtgggttgaca catagrtatg cagmttttca 180
aatgtctgga atgtgttact ctactacatg ttttttgaaa tggaaacaga tggaatgact 240
ggctactgta ataatactac agcagctcca taatgcatga aatcctaaaa agtatgtaat 300
attataagta tcttttcaat acaggtttca ttgctattat tcatcagttt ccgtttagat 360
tacctgttcc gatttaataa cctttgataa atttgaaaaa tttgtctttc aaacagagcc 420
tgtttagtatt aatgaagaaa atgagggatt tgaacataac acacaagtta gaaatcaagg 480
aattatagct ttgagttacc gtgactggga ggtaaagctc tgctgtttgc ccctgcatag 540
ttctgactct gccttcaactt gcagtaagcc cagtgcctaa atgttcatta ttgtctgcca 600
ggagattgtg aagacctttg agatttcaga gcctgtgatt actccaagtc agaggcagca 660
gaagccaagt gcttgatgct agctgaagga ctcaaattgga tagtgaagtc caaaacggaa 720
agcggcatgt attgtacata ttgtatgatt caacattttt aaaggcagat tgtttttagt 780
aaaatgtagc ttttgatagt taataaattt gtcattggtt tctttgatta aaggaaactc 840
accgccatat tcacaaaaaa aaaaaaaaaa 870

```

<210> 936

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 936

```

aagggaatct taaatgggaa attcgtcant gccctaccgg tccggaattc ccgggtcgac 60
ccacgcgtcc tagtttcaat kaactcgaat gcggttgagt gcctgagagc acctgttgct 120
gtgggtatca tcaccgtgtg tgttttctgt etttctcatcc acttttcttt gtgcagctctg 180
cacacacacc attaaaggct gatgacagca tttttacgaa ttgcaaacag aggccagcgc 240
ggtggctccc agcacttttg gaggccgagg cgggtggatc acgaggtcag gagttcgaga 300
acagcctggc caagatgggtg aagccccgtc tctactgaaa atgcaaagat tagctgggtg 360
tggtggcatg cccctgtgtg tcccagctac tcaggaggct gangcagaga attgcttaaa 420
aaccgggag gtggaagttg cag 443

```

<210> 937

<211> 490

<212> DNA

<213> Homo sapiens

<400> 937

```

agctggagag gaagggatga aaccagctgc tgttgcaaag gcwgcttgct attgatagaa 60
ggactcacgg gcttggattg attaagacta aacatggagt tggcaaactt tcttcaagta 120
ttgagttctg ttcaatgcat tggacatgtg atttaaggga aaagtgtgaa tgcttataga 180
tgatgaaaac ctggtgggct gcagagccca gtttagaaga agtgagttgg gggttgggga 240
cagatttggt ggtgggtattt cccaactgtt tcctccccta aattcagagg aatgcagcta 300
tgccagaagc cagagaagag ccaactcgtag cttctgcttt ggggacaact ggtcagttga 360

```

613

```

aagtcaccagg agttccctttg tggctttctg tatacttttg cctgggttaaa gtctgtggct 420
waaaaatagt cgaacctttc ttgagaactc tgtaacaaag tatgtttttg attaaaagag 480
aaagccaact                                         490

```

```

<210> 938
<211> 1165
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

```

```

<400> 938
gacagtcacn gtacngnaat tcnggccagt ncgacgctgc aaggggggacg cgggtcggac 60
gcgtccggct gtggaagaga gcggcgggccg ctcacaacat gcacagcctg gcgacggctg 120
cgctgtgccc tactacactg gcacaagtgg atagagaaaa gatctatcag tggatcaatg 180
agctgtccag tcctgagact agggaaaatg ctttgctgga gctaagtaag aagcgagaat 240
ctgttcctga ccttgcaccc atgctgtggc attcatttgg tactattgca gcacttttac 300
aggaaattgt aaatatattat ccatctatca acccaccac cttgacagca caccagtcta 360
acagagtttg caatgctctg gcattactgc aatgtgtagc atcacatcca gaaaccagggt 420
cagcgtttct cgcagcacac atcccacttt ttttgtacct ctttttgac actgtcagca 480
aaacacgtcc ctttgagtat ctccggctca ccagccttgg agttattggg gccctgggtga 540
aaacagatga acaagaagta atcaactttt tattaacaac agaaattatc cttttatggt 600
tgcaaatat ggaatctgga agtgaacttt ctaaaacagt tgccacattc atcctccaga 660
agatcttggt agatgacact gggttggttt atatatgtca gacgtatgag cgtttctccc 720
atgttgccat gatcttgggt aagatggtcc tgcagctatc caaagagcct tctgcccgtc 780
tgctgaagca tgtagtgaga tggtaccttc gactttcaga taacccagg ttttcagatt 840
tgactttctg ctggtcatct tttcaaagaa aatgaaacgt ttaaaagttc atctgataat 900
actgctacca tagttttggt ttcactgctc atctcttatt aaggttttta accataaaac 960

```

614

```
tgaagcaatt tctgtaaaga cacaaattga taacttagta tagaattaaa attcattaag 1020
ttatcataag tttgatgata tccttggttaa tgtactgatt tttgaattat tttatttgcc 1080
ataatccata tatttctaac atgagtattt tgacagtatt taataaatca gaaagctgtt 1140
tgaatggaag taaaaaaaaa aaaaaa 1165
```

<210> 939

<211> 448

<212> DNA

<213> Homo sapiens

<400> 939

```
tccgtctcct agtgtccgga atcggtctgc agtccctgg ctgttagtac cttctttccc 60
ggagtcctgg tccacgagtt ggatttactg ctgtcgcggg tgggcctcac gccattccct 120
gtccctcggc cccctgagtg agtccggtct cccggcgaaa gtgagcgagg tttgcccgga 180
gcgcgcacga ggggaaaatg ctaaaaaaaaa agactggtgc gaggaagaag gctgagaacc 240
gccgagaacg tgaaaaacaa ctaagagcat caagaagcac tatagattta gctaaacatc 300
catgtaatgc ctcaatggta tcagcttttt ttgatatcag ttggtagttg gaaaaactat 360
atactatttt atctgacgta tacctgaata aaatttttagt gaagacagtg ttttttggca 420
ttatagtttg ttggtgaatt tagtatct 448
```

<210> 940

<211> 932

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (897)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 940

```
gagagtattc agcacaataa tgttctttaa cccatcaacc tactttcaca gcaaatgaag 60
ccaggcatga aaagacaaag gagtttatac agagaaatcc tcttcttatac attagtgtct 120
ctaggaagag agaattattga tattgaggca tttgacaatg aatatggaat tgcatacaat 180
agtctgtctt cagagattct tgaaagggtg cagaaaattg atgctccacc aagtgccagt 240
gtcgagtggg gcaggaagtg ttttgagcgc cctctcattt aaatagagat tcactagaat 300
gttgacacac aaggcttggtg gattagattt catctggaaa cattcaagtt tttttttcca 360
aatcgtaaga actggtgaat acggaattga agtaactctt ggggacaata tataatgaat 420
tatgattcat attgcattac cttgaaatat gaagtgccat ttgaatgtcc cagggtttat 480
taatattgaa gattttcaac ccctgaactg cttttctgcc tctgtggaaa actactttgg 540
gattcttcag tatttgtagt agtttgatag aaataatgag gaaccatatt cattctaggc 600
attgtttata tttgaagtta ctgagtttga ggaatggcaa attaaatttg cctaaccctc 660
aaaacaaatg aaatatctca attataaaag caacatggcc gggcacggtg gctcaggcct 720
gttaatccca gcactttggg aggctgagca aggtgggtgg atcacttgag gccaggagtt 780
cgagaccagc ctggccaaca cggtgagacc ctgtctttac taaaaataca aaaattagcc 840
aggcgcacca ctgtagtccc agctacttca ggctgaggca ggagaatcgc ttgaacngag 900
```


615

gcagagggtta catggagtggt tgatcacgnc at

932

<210> 941

<211> 735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (640)

<223> n equals a,t,g, or c

<400> 941

```

gtggcacatg aaattttctca gatcactaat gatcttgcac agattattat tcctaaagat 60
aactcatctc tcttgaaaag gttggcatgt atagctgcat ttttttgtgg actcctcatc 120
ttatcatcca ttcaagataa atcaaaacat taggttccaa aaattctaaa aaacctaaac 180
tcttcagggt accttttgtgt gtctctagaa gagaaaagca tctatctgga gatataaatg 240
tgtatgtaaa tataaacggt tgtggcaaga ggacagttct gtgacatctg ttgaacatat 300
gtggttggtat atattggaaa tgtacatata caatatgaaa tactaaraca aacaaacaam 360
caaaaaacca gaatgcattg tataggattg catgtgaagt cttttctact gaatctatat 420
ttccatttgt aagtgattttt aagttaacat atgaaggcag ggaaatgatt acctttccag 480
taaaaagtat agataattta attaaccttag tgacaccacc aagtgttttg aatataacta 540
aatgtgtggt aataagactg tctgcacctg tattcattgt ggaacttctt ctttcmittg 600
aaactttctt actcaagaat gacggcagta ttgttttctn atatgtgcc aatgaaagtgg 660
gatgataaac agtatgcctt taatttataa tgtgtccttg ttctgaatg ttgttttctg 720
gaaatgaatt ttcct                                     735

```

<210> 942

<211> 858

<212> DNA

<213> Homo sapiens

<400> 942

```

ggcacgagtg cgtctccagc gtctccagcc gtagtctgaa gggagcaggg tggcgactct 60
ggtgacaggg cgatgccagt cctccactc cagaggagaa cgaaaccacg acaaccagcg 120
ccttcacccat ccaggagtac tttgccaagc ggatggcagc actgaagaac aagccccagg 180
ttccagttcc aggggtctgac atttctgaga cgcaggtgga acgtaaaagg gggaagaaaa 240
gaaataaaga ggccacaggt aaagatgtgg aaagttacct ccagcctaag gccaagaggc 300
acacggaggg aaagccccgag agggccgagg cccagcagagc gagtggccaa gaagaagagc 360
gcgccagcag aagagcagct cagaggcccc tgctgggacc agagttccaa ggctctgct 420
caggatgcag gggaccatgt gcagccgctt gagggccggg acttcacctt gaagcccaaa 480
aagaggagag ggaagaaaaa gctgcaaaaa ccagtagaga tagcagagga cgctacacta 540
gaagaaacgc tagtgaaaaa gaagaagaag aaagattcca aatgaatcct tcccagccgg 600
ggccttccga ccaactcagct gtcagggcac tgcgggggca gacacctctg gcctgaagtc 660
acagcagagt tcaccccaga gcgcctgggc gcattctgtg gcattgccc atggctgccga 720
gtcctgccct ctgcgccacat ttcccccaag ttacattccc aggaggacct ttttaattgtt 780
ctcaatcgtg gctctcagac acaataaat ttttttgtaa actctgaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa                                     858

```

<210> 943

<211> 1345

616

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (968)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1322)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1339)

<223> n equals a,t,g, or c

<400> 943

```

cccgtccaca atgcagcaga ctcttcccaa ggccacctag caagcaaggt tgatcggatc 60
atctaaactg gccgcctcct gaatatattca ctgaatcctg gcgttcattgt tgaagcagac 120
aaaatgagaa aggaggaggg cattgctcac ctctcaatag cttttttcgt tcaagttcta 180
tgtctttatc agctcttgcc tgtgatattta ccccaattca accttgggag tgggaagaat 240
atgaacagat aacccttggc ctaacagctc catcaaacct ccttgagagc aactacctag 300
gccaggctag tgagtgcctt gtgaggaagc tggtcagaag gttccctcaa ctccctcctg 360
gtcctcctgg acactgcaga aaagacttag gggatcccca gcagaggcca attgctctcc 420

```

617

```

ttccttccct gccccaccag gaaaggaata acgtccacag acttgaagca gatagtgaag 480
tagatctgtg agagggttcta ggtacttagt gtgtagactt tgacgaatat ttctcaagtt 540
gggagccctt gttaaaaatg atgtttaagg gagtgggttg ggggaagatg aaggcatgga 600
ggaggaagaa gagaaggaag cccttgccat ataaaattca tgcagactaa acagtttccc 660
tgacagaata aataaagtgg atgctacccc actccagaat caaaagcaat ttaattaaag 720
tctcttaagt tgtaaagagt tttaaatgat ccgtggtgaa ggcaatsct gcnaaatgca 780
gtgggtctga cgtcagctgc cgggcctggg ctgggaggcc atttgctatt ctgtttaagg 840
caggctggat tgtcttattt tggaaccagc ttggtggggg gtttgctttg ctactgcttc 900
tgagccctga gcttcaaagg ctgaaattaa tgggtgaacaa aattgtgagg ctctggccat 960
cccatgcngg gcaagcccat tgagggttat cattaagtaa agaaataaag agggggaaaa 1020
aagcctgcct gttccaaaaa cctcatcaga taatgacctc agtgattggg ttttcattac 1080
caaacagcat ccagagatta tcaaccata gaagaaggga ggggaaaaaa aaraaaaaaa 1140
ggaaaagcaa ctgnctttct ctccctctct tctccttttt tttgcacatc ttttctttaa 1200
aactgncaga tcatattcaag tatttcaaat ccgaggaaaa cagcctggct gctgctggat 1260
ttgaagtgga atgggggcaa aaagcccact ggctgacanc cgcagtccca aagggnntat 1320
tnaatcttaa aacttgccng gaata 1345

```

<210> 944

<211> 1829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (918)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1411)

<223> n equals a,t,g, or c

<400> 944

```

gaattcggca cgagatttat tattatttaa ctccctgcagt gagcaaattgt gagtaacatt 60
tgaatgaaaa taaattttca gcttatttac atgaggtaat aaacttgact ttatcaagta 120
attgtgggag tggggaataa acctcatctg gggatgggaa ataaacacca ctataaagaa 180
accactaaga tttgaatgcc ttgcttggtt taagtttggt gatgcaggta ttgcattgat 240
tatgcatcag ggaactggaa accaaggcat tcgttctttt aagaaaatag attcttaagc 300
ataggagtct catgttttaa gaactatttc taagttcaac taagatcgag ttttctgtc 360
tctattggca aktwtyaaga ggcataaact ttaaagaaaa agggaaaatg tgataaatta 420
atggaataga ctccataggc ttttattcca acttttataat gatgcaagtc tatgtgcttc 480
tgtctgactc acttattttct gtwatcaaga tgaactagtg aagggaattt ctctctcaat 540
gctaaattaa ttacatgcat tggggatagt catccagaga gaggggaagg gaccttctga 600
ngttgtcacy cagwaaataa ttgcctgagc tgagaatggc atgtgggtca cagaattggg 660
gtttctggat ttaggaaata ctccctattt ttttccact cctgctggct aagccaagaa 720
tggcaaatat gtgttcatgc tgctgcattc ccttccaggc ccataaggac gttggcaatc 780

```

618

```

cttcatagcc ttctcacagg cggaacctgg attaatTTaa gaaccctttt gtgcctggct 840
tttcaggaag ccagtagcaa tcaattgggtg ctggcatgaa gcatgaaact atttgccatc 900
tctgagttat gccagtanaa ttggcatgct tctggtttcc atgcatacca ctacctttca 960
tgggtttttat tgtgcacaaa ctttgcagtc ctttagaatg atatacctac gcagggtatat 1020
aatTTgtcac cctgatccaa aaagggkaag awgcmagac catagtgagc ctcttattag 1080
aaagctcttg gcttcagttt ttgacacttc cctgactctt tatattcacg ttatcataag 1140
ctgccaaatt cttgactcta taaattgccc tttaacagct tattaggaat tccaactact 1200
gtattctagc accaactaca gcatattcag agcctctgca attcctaaaa gtacacttaa 1260
accaaataca tgggccagcc tgcacttttt aaaatacatt ttatgccttt acacttcgta 1320
ttaagtTggg tgagaattat gttttaatct acactctatc ttgaattgtc ttacatttta 1380
ttctgcttac cagggttcar gttcttatcc naaaatgaag ttaaattttt ttctcttaga 1440
tagttgcatt ccckgaagca attaraacag catgatcccc ttggtgttta ttgacattct 1500
catcattgtc tcattgggct ttaggtttta catgcctcat gatgacaaca acaaagttaa 1560
agaagaagga gttaagagtc cccagcatgt catggctcca acactgaact tctacaccaa 1620
cccctggatg tggTcaaagt gtagtcgaaa atatatcact gagtttttag agtaagactt 1680
gaacattctt ttagcacaaa cttctagtgc ctggcctaca tgtagtgaac taattgtggg 1740
aaagacaata tgaagtcaaa cattcctttt gagttatttt tgttgacatt ccttgagaa 1800
ggcaaaaaaa aaaaaaaaaa aaaactcga 1829

```

<210> 945

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<400> 945

```

aaaaaaaaaa aaatgaaaga aacttgccct tttactttat atattcccat agtcacacac 60
ctagacctct gtttggccag attaccagat atgtatgcaa agagaatttg tagtgaaaac 120
tgtcgagtca tattcaaatc ctttctgtaa tgaaaagctt tttcctaaaa tctgttggaa 180
attgctcatt ggttaactac ttctgtaaaa gtatttgggt gaaattccag agttttatga 240
ggtgarggat aaaaagrtgg ctcaaggcct actaaagtca acctgcatca ttagtccctt 300
tcagaagaca rgracckggg ttwtgggaaa gattccngtt tkctgratct gctatkagtt 360
tctgctgect cacttgGCCa acaatttt 388

```

<210> 946

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

619

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 946

```

cctcactnaa  nggaacaaaa  gctggnngctc  caccgcgggtg  gcggcccgctc  tagaactagt  60
ggatcccccg  ggctgcagga  attcggcacg  agcggccgcc  tccatgaagc  ggaaaagcga  120
gcggcggtcg  agctggggccg  ccgcgcccc  ctgctcgcg  cgctgctcgt  cgacctcgcc  180
gggtgtgaag  aagatccgca  gctccacgca  gcaagaccgc  cgccgcccggg  acccccagga  240
cgacgtgtac  ctggacatca  ccgatcgcc  ttgttttgcc  attctctaca  gcagacaaaa  300
gagtgcacat  aatgtacatt  atttcagcat  agataatgaa  cttgaatatg  agaacttcta  360
cgcagatttt  ggaccactca  atctggcaat  ggtttacaga  tattgttgca  agatcaataa  420
gaaattaaag  tccattacaa  tgtaaggaa  gaaaattgtt  cattttactg  gctctgatca  480
gagaaaacaa  gcaaatgctg  ccttccttgt  tggatgctac  atggttatat  atttggggag  540
aaccaccagaa  gaagcatata  gaatattaat  ctttggagag  acatcctata  ttcctttcag  600
agatgctgcc  tatggmangt  gcamtyctac  atwacc  637

```

<210> 947

<211> 753

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<400> 947

```

ccacagtcgc  agccccggcg  ccccgaagcg  ggaaaaaggc  tgggtgccgc  cgtccccag  60
ctgcgcaacc  ctaggaactc  tcggcaaaaa  aaagagcatg  aggaatttga  agactgagag  120
atgagttgtg  tagcaccaac  attttctttc  tgcttgacct  tcatacctga  tgaattaaaa  180
gcataggatg  tttggaagag  tgagataagg  gacacattga  aaacagagag  gcaatctgaa  240
ggctaccttg  acgcatctgc  aaagctccca  gattctgact  ttcacaagac  ttgctttctg  300
tttctgggcc  tcgcctaaac  agactgccag  tcatccgaac  cgtggcagga  tggagatgtt  360
tgtgtaaggt  agactcaagt  ttgcaagact  caagaaggaa  accaccaaac  taatttwact  420
ttcacttaaa  ccagattgaa  accaagactt  gaagaattaa  aaactttgac  attaaccatt  480
gattcactcc  aatgaaataa  ttgtgttata  gccagaatca  tggtgaaatt  ggaacaaggc  540
ttttgatggg  atttttaatt  gagggactta  tattaaattg  gatattttct  ttaatgaaca  600
gcatgtggcc  aaaattctat  tttcattaaa  gtatattaag  catcatgaca  actcatatta  660
aacctgcaac  aaatgattaa  tgacatttag  agacttcaaa  tgtcatgaga  caccttaaatt  720
attaagaatc  aaaaagaaca  cctcanagtt  gtg  753

```

<210> 948

620

<211> 912

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (757)

<223> n equals a,t,g, or c

<400> 948

```
gctcgtgccg aattcggcac gaggttagtt gccgaaatat actagttctc tgagggttaa 60
agaagtaaaa taccttttta aagttaaata tcactagaaa aatcagtgtt attacaaggg 120
aagaaatgaa cccagtttaa gaatttgcca tcagtagcag tattaagcag tggttaatgt 180
cttaraagtc agacttcttt ttcaaggctc tcagaaccac acttgatttc tgttttggtg 240
cagctgtaat tgacacacac taggcagctg actccttgaa tatccagtgt gaccataaaa 300
atagtcctgtt aataccggat cttaattttt atgttattca ttaagatttt aactatattc 360
agtacgtaat ttggagacaa actagcatca tcaaaactgc ctgtaaataa ggtgtttagt 420
ctttctataa aaacagaata gagcagttac ctaccagtta aaatatctta tatgaagaaa 480
atagaataaa gatccagtca tatatgtaaa taagatgtac tgattgtacg taaatgaaaa 540
atggaccctt taaaaattat ttttacctga agcttgtcat aattttttta aagcaaatat 600
atatatgggtg atggtacttt tcaaagtgtg tattagtggg gatcacctca aacataaacc 660
tctgttggtga atcatttggtg tccttttcaa ctgtctttca gaggaaaggt aaaaaatcat 720
taaacctgaa attcattggt aaaatcaa atttgtnagc agtaactcaa gctcatgggt 780
ctcaagcaga aaaagggttg ggargactta aaaatggagt ccagggtgta catgggagac 840
tgcttaactc ccttggggta ggcattggcc ttgccttcag caaaccagtg catttcccca 900
tgtcttagtt tc                                     912
```

<210> 949

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

621

<400> 949

```

gcagtgagcc gagatttcac cagtgcactc cagcctgggt gacagagcaa gactccatct 60
caaaaaaaaa ataaataaaa aaaaatgcag ctgcaggagt gaggcgcttg gaggtacctt 120
gacccaaaga gcagggcaga ggggtggcagt ggcacatagg caagtgtctt tgcattgacat 180
cttctcagag cttcacaata atgtcaggga ccacatttaa tgctttttta tctcccatag 240
tgcctggctc acaggaagtg ctcagatatg ttaagtaata aaaagttaat gtgggtgggtg 300
cagtggctca cgcctgtaat cccagcactt tgggaggctg aggtgagtggtg attacaaggt 360
caggagtcc agaccagcct ggctaatatg gngaaacctc ggctntacta aaaatnccaa 420
aattactggc atggnggtgc                                     440

```

<210> 950

<211> 1006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<400> 950

```

attttcaaaa ggaaactaat ttatttttct ataaaatatt gcaaaggaat cgaatacatt 60
tttattctat gtaaataata atataatttt cacatttagg aggcaatagc aaatctggga 120
agcagttatt ctaagttgga agagcattat cccaatgcat tgaaaacatt tgatgactat 180
ttttttatgtc ttcttttatt tgatgattat aataatgttc taactgggtg gccttcggtt 240
ttcactctag tcagtccatc ttgtttacta tgtcaattgt tctccaaaaa gtagaaatgt 300
cattgttttg gggccataka acatttcaga agctttccag tatctatgca gtaacagtcc 360
aaacccctca acataacaca ttacacctg caagtatggc cccaaatntt caagtggctt 420
ctgtcactac tccatagtag atacccttg ttacagctgt ttcacaaata caggttgaat 480
atcccttatt taaaatgttt gggactamaa gtttcagatt tcagatatgt ttggattttg 540
gaatatttgt acatgtataa tgagrtactc ttagagtttg gacccaagtc taaacaaaat 600
tcatttatgt ttcatatata cttatacac ataacctgaa ggtaatttat ttttcccttg 660
ggaacactga atagactata tgttgtgcac ctacattttg actgtgacct atcacatgaa 720
gtcagggtgtg gaattttcca tttgtggcat catgtcagta ctcaaaaagt tttggatttt 780
ggattttgaa ttttcagatt agagatgttc agcctaatag caaatgttcc catgtttatac 840
acctcaacct cccattccca ttggctggaa catctctgct tatattaaat gtcttttatg 900
tgaaatctgt gttctcatag cttttgtat agttctctac catctcatgg ctcacattgt 960
attgtactta ttgtattmaa tatctggatc atctactgtg aaaaaa 1006

```

<210> 951

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 951

```

aaagaaccaa tgcaagtttg gtttctatcc agaaaaaata caggaacaga ggaaacaaag 60
caggatgatg actgaatctt ggattatggg gtgaagagga gtacagacta ggttccagtt 120
ttctcctaac acgtgccaaag cccaggagca gttcttcctt atggatacag attttctttt 180
gtccttgtcc attaccccaa gactttcttc tagatatatc tctcactatc cgttattcaa 240
ccttagctct gctttctatt acttttttagg ctttagtata ttatctaaag tttggctttt 300

```

622

```

gatgtggatg atgtgagctt catgtgtctt aaaatctact acaagcatta cctaacatgg 360
tgatctgcaa gtagtaggca cccaataaat atttgttgaa tttagttaaa tgaaactgaa 420
cagtgtttgg ccatgtgtat atttatatca tgtttaccaaa atctgttttag tgttccacat 480
atatgtatat gtatatttta atgactataa tgtaataaag tttatatcat gttggtgtat 540
atcattatag aaatcatttt ctaaaggagt gaattctaag ttttagggga aaaaatgcaa 600
tttattttca gactcccaaa gtaagaatta acatatcatg ctaagaaaat agtgactatt 660
ttgaagtatg ctacttcctt ttcagaaata tagaatacac gtttctgtta ttaaagtatt 720
tgattactaa ttcaaatacat atggcaatta taattcttct aaaatgctat catttgtaac 780
tgtatccctt gtattaaatc tcattaacca caggcagctg ttacagaaag ctgcattgtt 840
tcacattgag ctgttacatt agttcaggct aaatgttggg mgctccaacc acatccaaga 900
ataaatctgg aaacacactg ctgggatact gctgttagag cccttcttgg ccttgatttc 960
ccagaaatga gtcctcttct cttagcttag aagaatgtga ttatatccag gacatcatgt 1020
tcagaaaact tagtttactt tcagcataga atgcattact gttggaataa ttggcctcta 1080
gctcttaaat gtctctgata acttattaat atctatcttt ataaaataga gtgcaactac 1140
ttttgtgtaa aaatgtttgc ctttaaattt agtatctcat atcagcacat cgatatatgt 1200
ataaatgttc catgttaatg tgtaaaagag tctgtaataa attatttttt tcacgtgtct 1260
ctatacagtt tttatttcma taaaaatatt aacattaaaa aa 1302

```

<210> 952

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<400> 952

```

ctgtaacctt ttcacgcgct atctgctaaa aatgttgccg atgtgaagta aacatggatg 60
tagtnacctg acgtgccagg cgaggagtga gtgtgaaagc gragaagsag gaaactgccg 120
cgaccatgaa agackttgcc ctcaaggsaa aagtctctac agcgaccgtc tcccagacat 180
taatgaatcc cgataaagtc tcccaggcca cccgtaatcg ggttgaaaaa gcggcccggy 240
aagtgggtta tttaccgcag cctatggggc gcaacgtcaa gcgtaatgaa tcccgcacca 300
ttctggtgat tgtcccgat atctgcgac ccttcttttag cgaaattatt cgcggtatcg 360
aagttacggc ggcaaatac ggatatctgg tgntgattgg cgactgtgcg catcaaaatc 420

```


623

agcaggaaaa aacctttatc gntttgatca tcaccaagca aattgattgg n

471

<210> 953

<211> 918

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (871)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (903)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (916)

<223> n equals a,t,g, or c

<400> 953

```

cggcacgcgt gggcctactt tcacgcttcc tccccctccc ctctctccctt atcccttcgc 60
tttcgctctt ttccgctcgag gccgaccctt gagttgtgag tctgggggtct ggttggtgaa 120
aaagagccct tgaagctgga agacgggaga ggacaaaagc atgtcttccc ttctcgggtg 180
cattggtttg gatgcagcaa cagctacagt ggagtctgaa gagattgcag agctgcaaca 240
ggcagtgggt gaggaactgg gtatctctat ggaggaactt cggcatttca tcgatgagga 300
actggagaag atggattgtg tacagcaacg caagaagcag ctagcagagt tagagacatg 360
ggtaatacag aaagaatctg aggtgggtca cgttgaccaa ctctttgatg atgcatccag 420
ggcagtgact aattgtgagt ctttgggtgaa ggacttctac tccaagctgg gactacaata 480
ccgggacagt agctctgagg acgaatcttc cgggcctaca gaaataattg agattcctga 540
tgaagatgat gatgtcctca gtattgattc aggtgatgct gggagcagaa ctccaaaaga 600
ccagaagctc cgtgaagcta tggctgcctt aagaaagtca gctcaagatg ttcagaagtt 660
catggatgct gtcaacaaga agagcagttc ccaggatctg cataaaggaa ccttgagtca 720
gatgtctgga gaactaagca aagatgggtga cctgatagtc agcatgcgaa ttctgggcaa 780
gaagagaact aagacttggc acaaaggccc cttattgcc a tycagacagt tggaccaagg 840
aagcacgcaa gcgccggtga anagcgccct ncaggcccaa naaaggaagg agaatcattt 900
aangactttt attccnaa 918

```

<210> 954

624

<211> 1683

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1604)

<223> n equals a,t,g, or c

<400> 954

```

cgctnttccc cccacacccc gtgtggccag ggatccccgc atggcccac ttagaaactc 60
aactatttgg tggatgctaa acacttcact tcaggcaatc ccaaggcatt tgctccaggg 120
tatccgatga gattacagct gttaagcttg ctttccattt cataacttgc tgtgcagcta 180
gttaccaccc ccatgctgaa gagtaaagca aagtgccgtg gttcggcagt ggaatccacc 240
cccagcactc tgctcgcaact ggagcgttca agtccgggtta tgtgagaaca gactaggact 300
ctcttgctgc ctctaattgc atttcactgt caccctcccc agtnttctga tgggtgtgcat 360
gtgaggagaa gatgagggtta ggactgagaa gtgcagaagt tggaaacagt gtaaggctgt 420
tttaaaataa gatgttttgt tttaataata tgctcctggc acaaagctag gagtaaagt 480
gactccaaag ggagttcagt taatctctga aatgcacaaa acctagctat tttctccctc 540
tcatcacagt ctgagtctgg tccattgcta ccccaattct ctggggacat aaaaccaggc 600
tggaaaggga ccagggaagt tgaaatagt acatatcat cactagtccc aagggttaag 660
gaatagttag tttattctgg aagggaactgg gaagcttagt ctaattagt cctggggatg 720
acctatgcaa tcacaccgct tatgaccatc ctagagaggg ccctgagcac cagcttgatc 780
ttagggattt ccaaagtaac ctgctttttg cctggatagg gttaaaatag acctttcttg 840
cctatccttg ccttaacctt tctgcctgag gttggcctga gattgtgagt caacgacttt 900
gctatctttt cctcagtgtt gaactttcat taagaaataa agtcctagct tcttacagag 960
aggggtccaa atggtgaatg ctcatectgc ctggattcaa ggrattagct cagagrttgg 1020
cccctagctt ttctgccttt gtagggacag caaaagggga aaatttgctg cagaaaattc 1080
caaaagattg ctgtagctct cacagggaag tggtaaagat cagctaaacc tgggttgggg 1140
tgctttctgc ccagtgggtc ttggcataag tagattaatc ctgctctttt aagaaaaggc 1200
aacttattca ggcagtctgg aaagggggtt ctcagaaaac tcagtttctt tttccttct 1260
tttctcccaa ctactgttac tggttataga ggtcttttga ctctaaagac caatgtttgg 1320
ccactaactg gactaatatg tatctttctg tgatttcac atagaggtct gttttgtgag 1380
ggtttggggg gcagaaaact ttgattaaat cttaatggga ggctgggtga cctggattat 1440
ctacagttag cagacttaaa tggaaacagaa gtttatgtgt ccaaatagat gaatcattaa 1500
acctgagtga cttgacctgt gtggttcctt aatagtatct atatatctag acaaaaatag 1560
attgtgaatg taaatggtga atgaaaagga tggaaataat gttntcatat gttaatccat 1620
gagcttgaat ccaggggagga atacctcggt gctttaacca ccttagttat aacacatttc 1680
tta
1683

```

<210> 955

625

<211> 119
<212> DNA
<213> Homo sapiens

<400> 955
acctcctcgc cctgggctgc cccgcctggg tctggggggac ctgaacctcc tcgmcctggg 60
ctgccccgac tgggtctggg ggacctgaat ctccctcacc tgggctgccc cagctgggt 119

<210> 956
<211> 351
<212> DNA
<213> Homo sapiens

<400> 956
aaaactctgt aggctgatta atgaagatgt gaatgagcag gttatgcagg tattaggacc 60
tgaagacctc cagagcatta tctacaaatt sgaagaacac gaggaatttt tcccagcatt 120
tcaggcattt actaatgac tacttgaaat cttagaaatt gatgacytgg atgccattgt 180
acctgcagta aagaaattaa aagtactttc atactgaaaa caaatcaaat cttttttact 240
gtgtaaattg tattcttaac attttgtatt ttgtaggatt gatcttattt tgagacaagg 300
gttgtaaaat gtatttgctc tcagaattca tccccttctt agtattaggt c 351

<210> 957
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<400> 957
aatcggcac gagcttacca aaagtatcta atggcccaat gccttcaaac caagtttttt 60
caattactat attttaagtt atacattcaa gttaaaatat acctaggaca ttctgattat 120
agcctaggct ttagttctat ccagagaaca agaaaaactt ttgaaaaag gtaaggaatc 180
gatcccatac ctgatcagga cccataggca tgccagacat gggcatgggg ttcatgttca 240
tctgtcccat gtgaccactg ctgccattca tgtgcaccat actatacact gcaggattnc 300
cctgggtggg aaacttgctg ctgggggaaag gagtttaagt aaacaaatgg tatattacct 360
ntggagcact tagng 375

<210> 958

626

<211> 557

<212> DNA

<213> Homo sapiens

<400> 958

```

cagcagacaa gaatgagatt ttgttttctg aattcaacat caactataat aatgagctgc 60
cgatgtatag gaaagggact gtgttgatat ggcagaaggt ggatgaagtg atgacaaaag 120
aaattaagct gccaacagaa atggaaggaa aaaagatggc agtgaccgg accaggacaa 180
agccagtgcc cttgcactgc gatatcatcg gggatgcttt ctggaaggaa catccagaga 240
ttctagatga agacagctga cccttttgcg cttcagttct ggtgtgctta accatgcaag 300
ccctcccacc tcccagggtc ccttgcccta ggtggctgta gcatccctac caccaggac 360
actggtgcga atgacacaac tcaagttggg aggggaacag ggaaggaagg gatggatggg 420
ggtggtgtat cttactctgt ttaagcagaa caccttgttt gcggtgttgg aacatgggtc 480
ctttggcaga agtgcttttt ttttaatcgc agtactattt ttataaagcm agaactattc 540
catgccctgg gggatga                                     557

```

<210> 959

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 959

```

ggcacaggaa tgacttcaaa ggggtgtgag ccaggcctct tcccacacca gacttcatga 60
accatgcctg gtattgtgca tgtttttgtg agcagccgtg aatagggctg ggggagagag 120
atgttcagcc aagaaagtct aaaatagaaa gggaatgttc agttataaca aaacaaattt 180
ttgtaattag agtgctgggt tgtgctcagc atcattgggg ttaaagtgtg agcagtggct 240
tacacttgta atcccagcac tttggggaaa ctgnggtggg gcggatccct tgagggtccag 300
gagttcgagg ccaccctggg gcaacatggt ggaactccca tcttct 346

```

<210> 960

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

627

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<400> 960

```

gntnaaatcc ctncccaagg tatgtaatca gaatcccatc atgaggcaca cccaaatgag 60
ggacatttcta caaaataact accttgcaat cttcatagag tgaagattat gaaagtcaag 120
gaataatgag gaactgttcc agactgaggg aaagaaaata ttgacaagc agatggtatt 180
cgtgcttctg aactgaattc ttttgctcta ataaaagaca ttttgggcac agttttctga 240
ttctgatgaw tgkawtgkga wtatgtaaga gaawgtagga aaagkattca ggggtagtgt 300
gggacagggtc agcaactcac tctgaaatgg ttcaggaaaa tcagttcttt atgctgtatt 360
ttcaatcctt gtataaattc gtgtttgttt caaagattaa aaaaagarar aaaatggagg 420
ggaaaaatacc tggtaggcaa atgaacaaaa gacatgaata ggcaattcat ttaaaaatta 480
aaataggtct taaaatattt aaaaaaattc agcatcactg ataattagag aaatgcaaatt 540
taaaactgca atgaaatatt ctcatctgtc atgagaaggt tgtggctgag ttaagagatt 600
ggcaaatccc caccacccct gcccaaaagc aactgtaaat gccattctgt aaacaaaagg 660
aatcaaggaa cccttggtga tgtgactgat ttcagactgg ggcagataaa gtacaagctg 720
actcagaaaa gtgaagttgt gccagaaggn taaggaagtg gctcaaaaaa tgaa 774

```

<210> 961

<211> 901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (774)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (888)

<223> n equals a,t,g, or c

<400> 961

```

ggcacgagct tagtaccaaa tcctctgttt gggattgagc gctgctcctg gttaatcatt 60
cctactacaa aaaaaaataa ctcccagggc tagttaaatt gtaaaccaag gctcagcagt 120

```

628

```

ctcacaacac atggaccaga ggtgacacac agccatttcc tttgccatgt ggcccagttg 180
ctgctgccat gcttccattt ccacactgga tgcctacggc agtgagattt cactgccggg 240
gtaagagttc agcctggatg attttatagc tctgttccca gcacttctca tcatccttcc 300
agcccagaat cagcgggtcat tctgcatatt cccaccaacc ctctaccccc aaacacttca 360
gtgtacctca ttttaagagt tgcgtatccc tgattctagg acgtttttac ccatagttct 420
tgtctttcca aaatctgaaa ttcttttttt tgcctcagaac tgggtagcca agggttattt 480
tattttttatc tttaaaataa tcaaggcagt cgctagagtt tctccttggtg aatagatcac 540
tctagcattt taatgaaaaa gaaaaaaatc tttctggggg atgttgatc atagtaatgg 600
ctcagtaacc acatattttg tcttttccat gtcactgatt ccttcatatg agactatttg 660
gcttgactac cctgtatatt gtgtagaaat caaagttctt atctgtacat ttctgggtcca 720
atacctgtct tattagttgt ccttccccac taaagtttgc aaaacagaaa atgntactat 780
ttctgggtat ttaatgacaa tgaaagggtt ggggtcatatt tcatagtgc ntaaccgata 840
aggagggggg ctcaagggtt cttttgnggt tcttctaagc tttggtcntg gattttaaga 900
c 901

```

<210> 962

<211> 1452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 962

```

cangnggaa gcttaagacc aacttttggt tgagtacaca agtgatattt acattttcat 60
atactagtga tatgcctggt gcatacttgg caaaataaaa ctgagattcc gtctcaaaaa 120
aaaaaagaaa aggaaaaaaa aatagcatta tacctcttcc ttgtctcaac cgccatgaaa 180
attctgaaca ctccaaattc agttgaataa tccaaaacaa aatttataag tataaaataa 240
ttttacttct tatagtaata gtatacttta aaaagcctca ggggtatatta tcttctaaac 300
agctacaatt cagtgcagct acattaacca actatgttct ctagttgaga acaactaggc 360
ctatttctact gctgtgtagc ctcaagtgcct aacatgggtg ccaaataaat attcgtagaa 420
ttacactgaa ttgtaaaaac cattcgtttt tgtttacaat tgccaaaaat ctcaaaaggc 480
cctgtatttta tgtaattctt tgaaattatt attttatttt gatttctcag ttattgactg 540
gctgggtgtg acttagtaca taagtactca atattataaa aacctcaaat aattgacttg 600
attttacaca acatccttcc cttttctaca agttaatttt ttacaaaatc atttgggtta 660
tctcctaaat aggttatatt ttattgcttc tagaaacaat gtttcaaaat atatgtgcat 720
tatcagtaat aatttgtata aatatttccc acaacaattt tcataatttt caaagactaa 780
tttcttgact gaagatattt tgctagggaa gtgaaacttt aaaattttgt agattttaaa 840
aaatattggt gaatggtgtc atgcaaagga tttatatagt gtgctccac taactgtgta 900
cagatcagga cacatatatt tagacatcta agtctgtagc ttaaattggag gttactcttc 960
catcatctag aattgtttac ttagtaattg ttgtttcttt tattattata gacttactat 1020
cagttttatt ttgccaaagta tgcaacaggy atatcactag tatatgaaaa tgtaaatatc 1080
acttgtgtac tcaaacaaaa gttgggtctta agcttccacc ttgagcagcc ttggaaacct 1140
aacctgcctc ttttagcata atcacatttt ctaaattgatt ttctttgttc ctgaaaaagt 1200

```

629

```

gatttgtatt agttttacat ttgttttttg gaagattata tttgtatatg tatcatcata 1260
aaatattttaa ataaaaagta tcttttagagt gaccctttcc ccatagattt ttatttctct 1320
attatattttt acaaggaata taactcagtt tgttagggag agtgccttaa aggcaggtgt 1380
ttcttggact ttgttattta attagatctg cttgcaataa aaaaagttat cggttaaaaa 1440
aaaaaaaaaa aa                                     1452

```

```

<210> 963
<211> 423
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

```

```

<400> 963
tgaatttttt atttctgatt tcatgttttt aatatccaat taactcctta ttttggtaat 60
gtttcttttt tatagtattc caatcagtc gatttcactt aaaaaaaaaa aacagaaata 120
actccagata ttttaagcaa aaagggattt ggtggaaggg gttgactata gtaatgtcag 180
gaaggctggt tgagccaaag agaagaggat gctgccc aaa gatcaggaag ctcccagtc 240
ccacccccac tgctgctctg ctggaagcat agccctgcca ccattgcatt gaactgtacc 300
actgccgctg agcaaagtc ggaatcccaa ctctgaccat tgtatcatgc cgggtggct 360
ctgcaatgtc attttgatgt gtcttcagta tggatttttt ttttttttt tctgagtcaa 420
nan                                     423

```

```

<210> 964
<211> 786
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (610)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (663)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (698)
<223> n equals a,t,g, or c

```

630

<220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (737)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (740)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (762)
 <223> n equals a,t,g, or c

<400> 964
 taagctggta cgcctgcagg taccgggtccg gaattcccgg gtcgaccac gcgtccggaa 60
 aatgcattca gaatcttcag agtcagggtga aaagctttgg ccatgattgg ccttggcatt 120
 ggttgtgtcg gacagcggga ccaggcgccc ccttacctgg ctccccctc ccaggagccc 180
 ggtgatgctg cgaaggctgt gaacagggga ggcggcactg tgggggctgc cggcagccgg 240
 ggctggggag agacatgtgg acacgtggcc tctatggctc cgcctgcca gatcctccgc 300
 tgggcccctg ccctgggggt gggcctcatg ttcgagggtca cgcacgcctt ccggtctcaa 360
 ggtaggggaa gtctggtggt ggcggtgggg agggagcgaa aaatgtaaga gaccagttgg 420
 gctccaacag aaagaggcat cagggggctg ggatgggggt caatggggga aggccctggg 480
 gtcaataggg gggagccttg cagccaactc cctggatttc gggggtcaag tgaggccagc 540
 atcacttgct ccagcagcct aacagccagg acacaggggt ccaataagac cagggcccac 600
 cccargcctn tgacccttac ccacagatga rttctgtcca gtctggaaaa gctatgagat 660
 cgnctttccc amccgcgtgg accacaacgg ggcactgntk gccttnttgg caacttcttc 720
 ccggaagcag cggccgnggn accggggggc cacaggccaa tnccggcttt ttttaciaaag 780
 gggctt 786

<210> 965
 <211> 1340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<400> 965
 ggtccantaa aagagaggag gtttggagcg gtggcctgtg gagttgctat ggagctgtat 60
 gtgtttgggg gagtccgaag tcgtgaggac gccagggtga gcgagatggg aacttgcaag 120
 tccgagttct accatgatga gtttaaaagg tggatctatc ttaacgacca gaatttatgc 180
 atccccgcca gttcctcttt tgtttatgga gctgtaccta taggagccag tatttatggt 240

631

```

attggagatc ttgatacagg taccaattac gactacgtgc gtgagtttaa aagaagcaca 300
ggaacctggc accasastaa accactcctt ccatccgacc ttcgccgtac aggatgtgca 360
gccttacgca ttgcgaattg caagcttttc cgctgcagc ttcagcaagg cttattccgt 420
attcgtgttc attccccctg aggaggaagc agagcagagt gcgagatcct gacccaagag 480
caccataaca tagctccgaa agggagagca gagatggcag ctgaaactca ctctgtgctg 540
ggctttggta tggtaactct ttggtgggtt tatgatgctt acaaacttga gctttactcc 600
ttgtttggga gaacacgtaa ctggtgaaaa actacctggg aggagtgagt tcctccagtt 660
aaatgtggct gtagatgttg gaggctaagg aggctagtaa atatcaaaag gaaaagggag 720
tggaattgc tatcatgtaa aatatcaaag ttaaaatact aaggtgcatt ttccctgaag 780
ggaactcagt ctgactgctg tattcaaata cgtagctttg gtaacaaaca aaatccgtat 840
atgcaaatac acatatccaa acatgccaaag actgcttttc cactgcactt ggaaggatat 900
attatgccta agcctgcccc acaaattaag gtttgtgcct aaaatgttag attggactgt 960
atgccagtta gtctccattt attcctagta ctctgtccta agaactcttt taaaactata 1020
tcatgatgaa tagaaatgaa gataaaattg ctcttttgta actttatctt agtaatgtaa 1080
agattcagta aattgatgag tcaggttgca gccctcatgt gaactgaaag aagttgctcg 1140
cttctgtgtt gacttagatc aagacacgtc acgcacctt tctggggtag tacctgtgga 1200
gccgggaagg gtctcctgca gtgccattct gccttctcaa tgagcaaaac cattttctaa 1260
gtatgaggat attagtgagt aggagatttt ataaaagaaa gacctgagtc agacaaataa 1320
taaaggctctg ctgtggctaa 1340

```

<210> 966

<211> 884

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (796)

<223> n equals a,t,g, or c

<400> 966

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aggggtttat aggacagaga ccctgcaccc aacctagagt tgcctttttt aagcaaagca 60
gtttctagtt aatgtancat cttggacttt ggggcgtcat tcttaagctt gttgtgcccg 120
gtaaccatgg tcctcttgct ctgattaacc cttccttcaa tgggcttctt caccagaca 180
ccaaggatag agatggccct gccaaagtgc ggctctcct gttaaacaaa aacattctaa 240
agccattgtt cttgcttcat ggacaagagg cagccagaga gagtgccagg gtgccctggt 300
ctgagctggc atccccatgt cttctgtgtc cgagggcagc atggtttctc gtgcagtgtc 360
cagacacagc ctgccctagt cctaccagct cacagcagca cctgctctcc ttggcagcta 420
tggccatgac aacccagag aagcagcttc agggaccgag tcagattctg ttttgtctac 480
atgcctctgc cgggtgccgg tattgaggca cccaggagc tgttactggc gtggaaatag 540
gtgatgtctg tacctctgct gctgcactca cagccacact tgatacacga tgacaccttg 600

```

632

```

cttgtttgga aacatctaaa catctagtag atgacttgca ggctgttggc taccagtttc 660
ctgtctgagg tgtatatgtt aacttcgtga tcagtttgta tgtttgggac tcttgtccta 720
tgtaaagtta aggtggggccg ggtgcagtggt ctcacgcctg taatcctaac nctggggaggc 780
cgaggcgggt ggatcncctg atgggtgaaac ctcactctta cttgaaaata caaaaattag 840
ctgagtggtg aaaaaaaaaa aaaaaaaaaa aaaactcgag gggg 884

```

<210> 967

<211> 1632

<212> DNA

<213> Homo sapiens

<400> 967

```

aaattgaaac ttctaataaa aatgatatga ctatagatat attacatgct gatggtgaaa 60
gacctaatgt tctagaaaac ctagacaact caaaggaaaa gactgttggg tcagaagcag 120
caaaaactga agatacagtt ctctgcagca gtgatacaga tgaggagtgt ttaatcattk 180
wtacagaatg taaaaataat agtgatggaa agacagctgt tgtgggttct aacttaagtt 240
ccagaccagc tagtccaaat tcttcctcag gacaggcttc tgtaggaaac cagactaata 300
ctgcttgwtg tctgaagag tcatgtgttt taaaaaaacc tatcaaacga gtatataaaa 360
aatttgatcc agttggagag attttaaaaa tgcaggatga gctcttwaag ccaatttcca 420
gaaaagtacc agaattgccc ttaatgaatt tagaaaattc taaacagcct tctgtttctg 480
agcaattgtc tggctcctca gactcctcta gttggccgaa atctggatgg ccttctgcat 540
ttcagaagcc aaaaggacga ttgccatatg aacttcagga ctatgttgaa gatacatcgg 600
aatacctagc tcttcaggaa ggaaattttg ttataagtt atttagcctg caagacctgt 660
tgttactcgt acgctgcagt gtccagagga tagagacaag accacgttct aaaaaacgga 720
agawwatyag aagacaattt ccagtttatg tactaccaa agtagagtat caagcttgtt 780
atggagtga agctctgact gaaagtgaac ttgtgcgtt atggactgaa agtttattgc 840
attccaacag ctcattttat gttgggcata tcgatgcatt tacttcaaaa ctttttctac 900
tggaagaaat tacctcagaa gaattaaaag aaaagcttcc agcactcaag atttccaatt 960
tatttaacat cctccaacac attctaaaga aactaagtag cttgcaggag ggttcctact 1020
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ttactaggac agcatacaat ttgtataaaa cacattgcgg ccttcctggt gtaccttcca 1140
gtctctcagt tccctgggtc ccattagatc ccagcctgtt attaccatat catatccatc 1200
atggaagaat accttgtagt ttccaccga aatcactgga taccacaaca caacaaaaga 1260
ttggtggaac gagaatgcct acacgcagcc acaggaatcc agtttccatg gaaacaaaaa 1320
gcagttgctt gctgtctcag caagttgaaa ctgaaggagt ggctccacat aaaagaaaaa 1380
taacttgagg actgtaccat ggaaaactaa atttaaaaaa acagttataa cagtgtttta 1440
tttagataag tttgagggaa aataatcagt aggcaagagg aacatttttc ctgtagtagc 1500
tagagtgcct tgaaaaaatg tgttggttat gtgaaggaa atttcaacta aaatggaatg 1560
gtatgctttt cacccttgaa gtttgaggag gatcttgata tgttttaaca ttatcatggc 1620
agggaaatat at 1632

```

<210> 968

<211> 1592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1581)

<223> n equals a,t,g, or c

633

<220>

<221> misc feature

<222> (1589)

<223> n equals a,t,g, or c

<400> 968

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gctgtattcc cccttccagt tttttcttcc ccttttctta tttctttctt gctctctct 60
ttcagccctt caggatttcc ctgctacttg ggttcttgtc ttgaaacttc cttacacttt 120
tactgttttt tttttacttc cctttttctt aatcttcatc tctttcctca attttctttc 180
cttatcttcc ctacccttct tattatcttt cttgtttgtc catgtaattt cttctccctg 240
tttaccacct ctgaccttct tgtatttctt ttcgtctcct ccctattact ccttcttttt 300
tcttgtcctt cagttttaatt atttcaaaca catcacacat aaggcctgtc attcccttga 360
tttctaattt atcttttcaa cctctaataa atttracaca garaatatth ccccatcac 420
tttgctcccc atctactcag atctatcaac ttctctgatg gttatttgaa agtttagtac 480
ttaaaaatgt gtcagattaa aacttgttta gaaacagcca gctagctgga gatgaaaaat 540
atataagagc ttatttgcaa ggtgggttaat acatgtataa atactacaga gttgactgta 600
tataggtagt ttgtagatac attaagctat tctgttctct gcttcatctc ttagattggg 660
ggaacgagaa tgcctacacg cagccacagg aatccagttt ccatggaaac caaaagcagt 720
tgcttgcttg ctcagcaagt tgaaactgaa ggagtggctc cacataaaag aaaaataact 780
tgaggactgt accatggaaa actaaattta aaaaamcagt tataacagtg ttaatttag 840
gataagtttg agggaaaaata atcagtaggc aagaggaaca tttttctgt agtagctaga 900
gtgccttgaa aaaatgtgtt ggctatgtga aggaatattt caactaaaat ggaatgggtat 960
gcttttccacc cttaaagttt gaggaggatc ttgatatgtt ttaacattat catggcaggg 1020
aaatatataa agaagaaaaa tatttttaca ttaaaccctt tctaaaaatt gtaaataga 1080
aaataatttg gttttttatc aagaacaaca cttatcggtt tgtatttgt tagttatatt 1140
gccagtctgt tgcgactgac tcaaaaagtt aaatggtgcc actgctgaag atgattatga 1200
gcatcgcaaa ctttgtttct gacccatttt gacagttttt atatactct ttaaaatgat 1260
gaatgttaca ggtaataaaa gttaatacct ttaaaaactt ggtgaaattc cattacagaa 1320
gcaaaaaata aaaactccct gcctctgaaa agtcagatta ctgacttctt gtttggcaac 1380
catcagtttg tttataaaaa gaaaaaattt ggtggtataa catgtttgat gacagatgcc 1440
tctatctcta gattcaagct gagtgttgaa atacactgct gaaagcaaag agataggtat 1500
gttttccaga aaaaaagtca gtgtcattgc tccagatgac aagggttaatg tggtaaagca 1560
taagcttttt tttttttttg naaggaganc tc 1592
```

<210> 969

<211> 1931

<212> DNA

<213> Homo sapiens

<400> 969

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tttttttttt ttttttttgt attcttgcca gtacagtata tggtttttct accccaatta 60
catactgggt tttgtaccac atcactaaag gcccaaatca ttgaagatac aaaaccgtac 120
atgcaggctg gttgtctggg tagtcaatgg ctgatttgc tcaactgtct agtatgtatg 180
tgcagcctga aactggctcc ttaaaaggaa agccgggtca gtcactctga aaaaatgaca 240
tgtaaaagta aatcgataat tgttttgaga gacgggtacat gttttaaagg ttggccttaa 300
gcttcagtaa cattgtcatt ttgtgacctt ttgttgtcac acctgtaccc taacctgaca 360
ggaattaaact actgtttttt tgtggggcag aaagcaaaac ctggtgttgt gacttttata 420
ctaattggtt ttagtgcaagg ttagtgagaa gaaacacaaa ccagatgca tgcattgtgc 480
attattttgt agacaagcta ctttttcttc tgtcccttta acaaatgtgc agcaattacc 540
ctccctttgg ggtctagagt gaaagctaatt ttgtgggtag atgagattgc agaagaatgg 600
atgtccatgg ctgtgaacac tgcacactgc acatccatct ccagtgtcga cactgtgcag 660
```

634

```

ctaccactcc ctggctgcgt gccatgctgt cgggttgacag atttgacac ataaattcct 720
caggaagagt ttgcatgagc atcacctcgc aatattctgt actgaccaa caagggattt 780
gaacgttttt cagcacaaaa ggataacttc cgagtgggtg tctgtacgca tactagcaaa 840
ggtaatgggtg atctagcaaa caaaattggt ttctgcagtt agaagtgagc aggagcactt 900
gtattatagt atttaaataa tcctgggttaa tctcttttta agccgagtaa cccctccaga 960
ttttgccttt ttattattga ggctggcttt attttcttct actttttttc ccgtttttata 1020
gcagtttaatt atttttgtga ttattatgca agaagcattg cccttgagtt aaactgttat 1080
tgtttcataa gcagctatta aaataactga gcattgtttt atgaacatac actaatctga 1140
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gtttggagtgt tttagattga ttttttatgg tgcctctttt agcttggaat attacgttta 1260
ctttaatcca agtctaggcc ttttaaaggg tccttaaaat taaagttcag aatgtgaatc 1320
cctttgacat ctattacagg tttataggac ctttttggtt gtgattactg ttttcaatac 1380
gattgtataa atgaagttaa ctttgtcaga agttaaagt gaggtcatag gagttcctgg 1440
agaaatggct ctctgtttt tttcattacc ccactgaagt tcaccccagt ttctggccac 1500
aagaatatga gaaaggaacc ctgtgtgttt ccaagggaaa tcattcctct ctgtcccccac 1560
tgttgattaa ctaaagtctt ggacaccttc cttctccac tggccaagac ccaccttgac 1620
ccaccttgaa cctcttttca gagccgagtg gcatgaatat gtgtactgtt tctgttcttg 1680
ttgatggagt ggctgtggga gaattaaagg aaatgctaatt ttgagcttca ttcatagggg 1740
aacctactat atattgcac cctgctggtt ggaaattatc ttcattctctg gactgcattg 1800
tttagaaaaa tgttaatggc ttacaattct gagaaacttta ttgtgtggct ctgggggttaa 1860
gaattctgtg gtttgaaaaa aaataaatat tttgtattga ttcaaaaaaa aaaaaaaaaa 1920
aaaaaaaaa a

```

<210> 970

<211> 743

<212> DNA

<213> Homo sapiens

<400> 970

```

tctaactgtg gagtggatta aggagatttg caaasgacaa agggakgaat tccttacttt 60
aatctgttat catttttctt atgtttccyt ctttgttcag aagcccagat gcattttttat 120
aactcagttt taaaaacttt aaaatagtta ccttgccctt taggatgttc ttatcccacc 180
cataatgaga gttgaaagg gatggatagc tgctcccat gcccttccca ctttttgtaa 240
taggccgtga ggggtgtgagg aagaaggctg tcttttgtac ataaggacaa aattgtttgt 300
tttacataaa ttttgttaca ttttttgc taaatgcttg tatgtaacaa gaagcgagtt 360
gccaaactac ctgttgtact tttgaatttt ctgattgaat tacagactgc gaacaacggc 420
tttcagaatg agggacttcc atcagactct aatgataata gtagcacaaa ttgaaaactt 480
ccccaaagct ttcacagaat attttctcat aataaaatcc aagtgaacag ataattagaa 540
gaaacccttt tccttcaggg aaccaagcaa ctctatttta gtactgacat gcattatttt 600
cactgtgaat tcactttttt attgcatggt cagatgtccc tctttgtttt ttttttttgt 660
aacattaact gcaatgatgt tcttcctgga attcatgaaa atataattaa aacacatttt 720
taaacaaaaa aaaaaaaaaa aaa

```

<210> 971

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

635

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 971

```

cctggggaac caaagccac ccctagggga aaaccagggc aaacgggngg accccctagc 60
tggtatcngc cgncaaaatt gattgccttg cytggtggtg gggaaaaaac tcccacacat 120
ttggtcagag aagttttctg tctttattgt ggtgtgagag cagaggaaaa aagtttggtt 180
tttccgctca gactttgttt taaggaacag gggagaggga agttctgtgg tttttgaagt 240
tcttagatac gtgtgtgtag ctttgtgtgg cattatatat agcattatat tattttctac 300
ccttatctac tcatacagaa attgcacagt aaaaacatca aagtttattc ataaaatgtg 360
gatctattgc agtcactaaa aatgttgcag aacagatttt aatgactgaa agtggtcatg 420
ataatatatt caatgaaaat atggttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa 540
aaaananaaa aaaaaaaaaa anaaaaaa                    567

```

<210> 972

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

636

<222> (343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 972

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agtgagaact aaacgggggaa tacagatagc agagattaaa taggctataa gaaaaaaaaag 60
ggatgataat aagaccatgg tagtacataa aaaattttaa tgatctgggt aaatacattt 120
ttaaaaaactt actaagtgcc cagtgcggtg gctcaggcct gcaatcccag cactttggga 180
ggctgagggtg ggtgggtcac ttgaggccag gagtttgaga acagcctggc caacatggcg 240
aaaccccgtc tctactataa ntacaaaatt taaccaggcg tgggtgggtggg cacctgtagt 300
cccagcttac ttgggagact tgagccatga ggaatcactt gancccagtt ggggtgggagn 360
tttggg                                           366

```

<210> 973

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<400> 973

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gaacaggggg ttttgttttg ttttgaaaga acgtctctgt ctgtngccca ggctggagtg 60
tagtggcatg atctcggtc actgcagcct taacctctg gctcaaaca gccccctgcc 120
tctgcctacc aagtagctga gactacaggc acctaccacc gtgcctgtct aattttttaa 180
attttttata aagatgaggt ctctctttgt tgcccaggct ggtctcaaac tectaacctc 240
aagcaatctg cccacgtcgg gcttccaaag tgctgagatt ataggcgtga ccacccgtgn 300
ccaattgtga tcgtttttcc caaagaatgt atcacatgct aacaaaccat atatttatgt 360
atttcattgt tcatagtaac tacaatttaa aaactaaaag aacaancagg c 411

```

<210> 974

<211> 943

<212> DNA

<213> Homo sapiens

637

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (933)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (937)
 <223> n equals a,t,g, or c

<400> 974
 gtttntgagg ttcagtctta aacatttgct ttaagaaaac agtcttgaat ttcacatgct 60
 gctattttta tattttgcca ttttacagta ctgttttggt ttgaattcat gcataatcatt 120
 gaaaatttct cgttttcatt ttcttagatg acttcttgct tgagacagaa aaatttccta 180
 ctacagcagt gcagtccaga ggtaaatgag tattagaatt atacaatata agtttaaaaa 240
 tctgtatgca taaagaatgc accactcaac ttttttattc ataagctaata atttttttta 300
 agttacatta agattttttc tcttttgcag ctacatttga aagtgataga ataaagagat 360
 tttaatgagt tatcactttt tcagctgata tattcatttt aatggctttt ttgaaagtgc 420
 ctttttcatg aacacacccg agaaatctta aatagacact ttgcaatatt taagaacctta 480
 atgctgttta attttggtag agcttccaca ttgcatgttc acttttagtat ttgcaatttg 540
 atatatattca tgggtggcaaa atatttagctc tgttttggga catttttaaaa tagaactatc 600
 cttgttcgat agcataggaa aatgttcttg tgattgtcag ggtctcctaa tatttatctc 660
 aattctttta taagtctatg gaaattatct aattatttta aaacgtacac acttttcttg 720
 taaatatgtc acatctgagt tcaaaaaaat tactttgaat accttaatat ttgctgcatt 780
 tttttccgta tatataacat gtcttctttc agaatgggaa tatatgtgtg cctcccaaca 840
 tttactgtta aagtgtgtta tcttttatatg tcaaactggg tgaacactgt aatgagaata 900
 aactgcacag agtttaaaaa aaaaaaaaaa aancccnngg ggg 943

<210> 975
 <211> 719
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (703)
 <223> n equals a,t,g, or c

<400> 975
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 catgagatga ccgccgtgtg gtaaaactgat gaaccccgac cctgatcaac atgagatgac 120
 cgccgtgtgg taaactgatg aaccccgacc ctgatcaaca tgagatgacc gccgtgtggt 180
 aaactgatga accctgaccc attaggcttt ggctacagaa tgtggaaata agttgtgtta 240
 ctacatgtgt gtaatcctag ggtgcaggac accggccggg aggttccata gagtgatggg 300
 ttctgcaggt aactcactct ctagtctctt gtaagctcct agaaggaaga aattatgtcc 360
 tttagactaa taaaattcct ccaaaccaaa tacagcacct actgtgaaga cacaagata 420

638

cttttagaat agtaaaaact ttatccattg agaaattcct taatgaaaca gtatccaaga 480
 agtcatttgc cagcagattt cttagagggtg cgataaagaa gaggacattg ccagtcgtca 540
 cagcagctgc aatagctcct ctctattgtt aaacagtggg atatcttgtg caggttttca 600
 gttgacaatc aatttttaaag attagtttcg gtcccatca atcaattatt tattaacca 660
 tcaataaaaaa tttaaattgct ctgtgaggta caatagctwt twnaaaaaaa aaaaaaaa 719

<210> 976

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (200)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<400> 976

tgtttcattt acagcagctt ttagaacgta agccagataa ttatatgaca ttatctcgtt 60
 tgattgatct cctaagaaga tgtggaaaac tgcaggatgt cccaagattt ttctcaatgg 120
 ctgagaaacg taactccaga gcaaaattgg aaccaggatt tcagtattgt aaaggactgt 180
 atctttggta cactggagan ncaaattgatg cccttcgaca ttttaataaa gctcggaaaag 240
 atcgtgactg gggccaaaat gccctttata atatgataga gaatctgttt gaatccagat 300
 aatgaaactg ttggagggtga agtatttgaa aacctggatg gagacctggg taattcaact 360
 gagaagcaag aatctgtgca actggcagta agaacagcag aaaaacttct taaggaaacta 420
 aaacctcaga ctgttcaggg tcacgtacag ctctgcataa tggaaaacta ttggggggggg 480

<210> 977

<211> 1994

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<400> 977

ctctgttctc tggaatgcc a tgatccatcc actgtgcaat atgactctga aaggggtagt 60
 atggtaccag ggggagtgcca atataaatta taacacggat ctgtacaatt gcacattccc 120
 tgcactcatc gaagactggc gtgaaacctt ccaccgtggg tcccaggggc agacggagcg 180
 tttcttccca tttggacttg tccagttatc ttcagatttg tctaagaaga nctcagacga 240
 tggatttccc cagatccggt ggcatcaaac agcagacttc ggctatgtcc ccaacccaaa 300
 gatgcccaat actttcatgg ctgtagctat ggatctctgt gatagagact cgccttttgg 360
 cagcatccac cctcgagata aacagaactg tggcttatcg gctgcatttg ggggcccggtg 420
 ctctggctta tgggtgagaak aatttgacct ttgaaggacc actgcctgag aagatagaac 480
 tcttggctca caagggggtg ctcaatctca catattacca gcaaatccag gtgcagaaaa 540

639

```

aggacaacaa gatatttgag atctcctggt gcagtgacca tcgatgcaag tggcttccag 600
cttctatgaa caccgtctcc acccagtccc tgaccctggc gatcgattct tgtcatggca 660
ctgtgggttg tctccgctat gcttggacca crtggccttg tgaatataag cagtgtcccc 720
tataccaccc cagtagtgcc ctgccagccc ctccccttcat tgctttcatt acagaccagg 780
gtcctggaca tcagagcaat gttgctaaat gactgtttca gtatgatcag aacttagata 840
taaggatggg tccttcagat tttagcattt aggagtttca ataataacca ttgcttttaa 900
aggaaattaa tagaaagcct cattgaatgg ctttcagcta gcacatggct gtttctatat 960
tctgatgagc ccaggctyat aggtaacttg aaatgcttgc tttttgttcc ctagtgggtc 1020
taaggggtctg tattggacta attctgaact acagacaaat tggacctcaa tgtcatttat 1080
ttccctcata ttaatgggag tgaaatgtct aatacttttg ccccttttta tccagagttg 1140
tgggatctca ggattggaag agattttaaa ggccacatag gccagctagt gttcatgtgt 1200
tctttataaa atttctccca tccaagtact aaccaggccc gaccctgctt agcttccgag 1260
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tatgtggaac cgaaatcttt ctttctcccg tgaaacttta ctactatcag ataattgaag 1440
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aagtgactgc cctaaggaat gaaaagcaag ggccagggtg gagtagccca gcgaaggcac 1620
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gcaacagagg caaactgttg ttcgagttaa atataaatct caggctcttt aaaggtaaaa 1740
ggtttaagga taatccattt ggaagaagaa aagagtgagg ctgaaagtaa agccacatga 1800
caagcatata aaaaaaaaaatg cagatgatac aaatatgaaa gaggccttca gtgtttgttt 1860
attaagaatc ttaatgcagt ttactgatgg attaaaaaca gctaacattg tctgaaaatt 1920
atgttaccta taagaagttg gaaataaata aaagcataat cactaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaa 1994

```

<210> 978

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (279)

<223> n equals a,t,g, or c

<400> 978

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tcgtcctgcc tctgctcccc aaagtgctgg gcctgagaca ccacaccag cctaaactaa 60
aagccatttt tagtaactcc caccaatgtg gttactgtta caaantnta tggttcctgg 120
gtcatatttg gtatcaraat gtgtatgtat atccttataa atatggaatg tagaactgat 180
aatagttttac ctatcagatt tgcaaaaata aggaaagatt tttagcagct tgaacaaaac 240

```

640

```

atatacatatc ttggataaat aatttagaat ttttaaccna tggtcatat gctcttaca 300
tattctctttt gagggtaaaa catactttat tcttaactt aaagaacctt tgataagccg 360
tgaattatga tctcagtgac tacatttctt tttaggagtt atatgtgggg gaaggaaaga 420
agtagctagc agggttaaca tggaaagcag gagattatag acaagcatca tttgagcctt 480
tggaactac aaataatctt caaaaatgac aggttttttg gctttttgtt tttcctttcc 540
tttagtgcta gttgcagaat cctatcatat tgtggttaga tttcaataaa gaatgttta 600
gattaaaaa a 611

```

<210> 979

<211> 2497

<212> DNA

<213> Homo sapiens

<400> 979

```

gaattcccgg cgctgaggtc ggaacgtytg cgtgtgtgcg ggctggtttt gtggcggtcg 60
ctgctagagc tggagcattt gccggctcagt ataaaagatt aaactctaca gaagaatgca 120
atcaagtgat ggcttttctt ttagaatttg aatatggagg ctacaggaac agatgaagtt 180
gacaagctaa aaaccaaatt tatatctgct tggaaacaaca tgaaatatag ttgggtgttg 240
aaaacaaaga cgtatttttag tagaaattct cctgtattat tgcttgaaa atgttaccat 300
tttaaatatg aagatgaaga taaaacgtta cctgcagagt cgggatgtac aatagaggat 360
cacgtaattg caggaaatgt agaagaattt cgtaaagatt tcatttctag aatatggctg 420
acctacaggg aagaattccc tcaaatagaa ggctcagctt tgacaacaga ctgtgggtgg 480
ggctgcacat tgagaactgg ccagatgctc ttggctcaag gactcactac acactttctt 540
ggtagagctt ggacctggcc tgatgctttg aatattgaaa attcagactc tgaatcatgg 600
acttcccaca ctgtcaaaaa atttactgca tcatttgaag catcactttc aggggaaaga 660
gaattcaaaa cccaacaat ttctctgaag gaaacaattg ggaaatatct tgatgatcat 720
gaaatgcgaa atgaagttaa tcataggaaa atcatctctt ggtttggtga tcccccttg 780
gctctttttg gcttacatca actaatagaa tatggaaaga agtctgggaa aaaagcagga 840
gattggatg gaccagctgt gggtgctcac attttaagaa aagcagttga agaagcaagg 900
catcctgatt tacaaggaat aactatttat gttgcacaag attgtacagt tcctgttaga 960
cttgggtggag aaagaaccaa caccgactac ttagaatttg tgaagggtat ttaagcctg 1020
gaatattgtg tgggtattat tgggtggcaa cctaaacagt catattactt tgctggattt 1080
caagatgaca gtttgattta catggatcct cactactgcc aatcttttgt agatgtcagc 1140
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tgaagagaaa caagtatatc tgaaatgttt attttcacaa atatcttaat tttatatgtt 1560
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ttgataatta aatagtattt gttaactgkg atatgcatac acttatataa gcagaattat 1980
gagttaaagt aatacttrgc aatatgattt tataatggct cctcattatg cttgctgttg 2040
aaccttttat gaggagtga tataaagtat tggttttccc tcacaaattt aaagattatg 2100
ttattaatac tattataact gcatcaatca agtcagataa aggcaactat aaaatagtag 2160
tagtgtttgt ttcctatctc aagggcgaaa ttttatggga actcaattta ttatgcagtt 2220

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641

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ttaaagttta aaataccaag aaagatgtca ctagattctc ttctatgtga tttttgtttt 2280
ttatataaag cagtgtagtgt gtgttttagaa gctgaggcca cctgtaaggc aaatctgcct 2340
taagtgtatt atgtgttact taaaggcaaa tttgtgatct aaaagtacaa gagtgatttt 2400
tgagctagga ttataaaata cataataaag atgtgagaag ataaaaaaaa aaaaaaaagg 2460
aattcgatat caagcttata gataccgtcg acctcga 2497

```

```

<210> 980
<211> 652
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

```

```

<400> 980
ggaaggaggt ttgttgttnc atcaatgttt gtgaaatgat ttccatacat aaaaaatgta 60
atttacctga actttgtctt aagactctta cattggatta taggataaca gataaataaa 120
ctgtatagat acattcagta tcatacaaca ttttggaatg tgtatgcttt caggcttcca 180
agataattaa attactgtca tgatacattt catgcatttt ttatgacttc agtataaaac 240
attcaggtgt gttagccttc cctgggaagg gtaaaacttg atgtgctttg gtaaagtact 300
taaattccaa tgtyccctat agtgcttgca ttcattttgt gaaaagtttt gttgtattgt 360
tagaacaatt ttcaaaggct gattttatgc cttatctgat agaaatatag aatagatagt 420
tctttaattg cttacttttt aaaagtaata taatatTTaa gttgcatttt tattaatagt 480
aagattaaca ttttaagtctg catTTcttta aatgtTTtaa atgtTTtag cattcaatgt 540
gtagttggwt ttacttgact aaaaattagc cctTTaacgt ttatatttgk tgkatttata 600
tttaataaag gcatactaac ttwartaaaa aaaaaaggcg gccgtctaga gt 652

```

```

<210> 981
<211> 323
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

```

```

<400> 981
ggagatatct tctaaaagtg aactggatga attgcaggaa gaggtattat ggcctgtcag 60
cattccctgt gccctcmaaa ccttaggcct agaatgcgga gctgccaca taacattcac 120
ccttttgaac agatggagtc aggcacacta acacagcctt ctgtcctcaa taacacagcc 180
attattgcca cttgctcagt cgtcaatgta aaccctcaga gtcagctgaa ctatttttagg 240
ccaaacatac tgTTTTtgta aagtattttt cattaataaa tctataagac agttctattt 300
aaaaaaaaana aaaaaaaaaaa aaa 323

```

```

<210> 982
<211> 403
<212> DNA
<213> Homo sapiens

```

642

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<400> 982
tacaaggctt tggccgacca agtgtgtacc atgctgctat tgctmkcttc cttgaattct 60
ttgcgtgggg cctkttgaca actccaatgt tgactgttct acatgaaaca ttttctcaac 120
acacattcct catgaatggc ctcaattcaag gtgtaaaggc cctgctctct tttttgagt 180
ccccactcat tggcgccctg tctgatgtgt gggggaggaa gccctttctc ctcggsactg 240
tattctttam ctgsttccca atcccactga tgaggatcag cccatgtttt ttaaaaaaga 300
aaacacatca gtggacgtga atgcaatgat gtcttatgaa tgctcacaca gaagcttcca 360
ttcgtgagga atgcanggaa aagcanaaga tggantaaga agt 403

<210> 983
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (707)
<223> n equals a,t,g, or c

<400> 983

643

```

ccaggcccta taanccccggc accttgggga ggctgaggcn ggaagcacca cggagcccca 60
ggagttgggg acccggtgg gccacatagc magaccctgt ctatTTTTTT aaaaaagtaa 120
aaaatagaaa ttatctcact acttaaatecc cattTTTTTT acttcatatg aaagaacata 180
ttgatagtat attctatatt atttcataga tctgtctgaa agagattggg aacaaaaata 240
tctaattgag atattcttta atTTTTTT tagcagcttt atTTTTTT ttctgtagta 300
tcagcgaaat cagtcagtgt tataccttga atataaatat caggaatcat gcaattattt 360
ctactatgta tttagtagta tcttatattt gtataacatt attacatttt gcaaattagt 420
atcacaactg ctaagtagat gtttctgagt attagaaaaa tcagtgttat tacctgcagg 480
atattaaaaa acatttgaaa aagagaaaaa gaaaaatcag tgtttagaaa tgttgatagt 540
tattgaatct ttgaattgaa ttttaaaaat ccattctagt aatcagagta tactTTTTTT 600
atagaacaag gtggcagggt gggagccctt tacccttctg gtgaagttaa accataggaa 660
gtttacaatt tgsctnttca caaacmttag cagtccsggg catggtnggc tkragcctgt 720
gratycccrgr catgttgggg aggcccgagt tggggagggt tgcctgag 768

```

<210> 984

<211> 134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<400> 984

```

cctgatatac aaatacaact atacaaaatt acaaaacata gtttgkatga aaaccaaaaa 60
tttagtcctt aacatttgac ttgcactggt gccattgcac ttcatgcagc ttataggcac 120
ctttccaggg naag 134

```

<210> 985

<211> 1134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1120)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1127)

<223> n equals a,t,g, or c

<400> 985

```

gtcggacaaa gccctcgct cggacccttg ccagaactca attaatggat gcctcgaagt 60
tgacgtacat atatattcag aaatgttttg ccacctgaga cctatgagga ggttatgtct 120
agagaagata tttccacact ggtttccctt ttcaagagct ttatcgggag ctgaagcagt 180
caatgccttg aggcctttct attttgcagt acatccagat ttctttggac agcaccctgt 240
agaaagggat gatacatgga agagttttca atgccttagt gatttttcct tatgatgcat 300
gctgctggac cactccctta caacatcagt taatgtgtgc tccaggaata caaactgata 360

```

644

```

tgaaaaatga cttatggtag atgtagttaa gacagtcaat atattttaac attagaaaat 420
acagtcagtc cttcatatcc atgggtttta catccatgga ttcaaccaac ctcagactga 480
aaatattagg ggaaaaaaat acatctgtac tacacatgaa caaacttctc tttcttgtca 540
ttattccctg aacaacacag gataacaact acttacatag cacttacatt atattagata 600
ttataagtaa tctagaaatg acttaaagta tatgggagga tacacatagg ttatttgcaa 660
atactacact attttatatg agagacttga gcattcgcag atttcgggtat ccacgggagg 720
tcctggaacc aatcccctat ggataccaag ggactgctat gtattacaaa gccacatgct 780
ttggaattac ttcagtgttc cttctatttt cattaacact gatatctagt ttaatatgaa 840
aaggaacttg aaatcctgaa aattagaaca tcgttatttt tttctacttg caatggaaaa 900
tctattttgc ttttttgctt ctaggaaaat attckgatta tgatatgtga tatgttggct 960
actcaaagtc agaacttttc aaagtaatca gtaaattgra tcaacagaaa aatattcatt 1020
aactcgggga tgcawtaata aagtttttaa attcaaaatg tatagaaaaa tcaagcttag 1080
taatacttta atattattct accaatgtat ttttttttan gttaaangac ttcc 1134

```

<210> 986

<211> 747

<212> DNA

<213> Homo sapiens

<400> 986

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ataaatatatt gtagcgcagt tgtagaaccc mtcmagrat ggcaattttt gaactagttt 60
ctaaacmaag ggrattgtat cttcamcaga aaatattatg tgagctttct gggcatatkg 120
atctttttgt agatgtgaat aagcatctct ttgatggaga agtgtgtgcc atcaatcact 180
ttgtcaagtt gctaaaggat ataataatct gtttcttaaa tatcagagct aaaaatggtg 240
cacagaatcc tttaaaacat cattcagaga gaactgatat gaaaacttta tcaaggaaac 300
actggtcatc tgtacaggat tataaatggt caagttttgc taataccagt agtaaattca 360
ggcatttgct aagtaacgat ggatatccat tcaaatgaga gacctaaaat atattaacat 420
tttaattaag aatacttgat caacattttt tgaagttaa ttaccatat tttataaatt 480
gcgcatctcg cacagtggac aagtttgcaa ttctgactta ttaaaatttc aaattctgca 540
tatcacaaaa tctccttata cttttggtat ggcttgacgc atttatgagt tttccaaaat 600
atagaaagca gtaggtcagt aggagcaaac tagccaacag gtactgtctt tgaatttact 660
actgtaagac taagcagtggt tactggacac agttttaact tgtkcaatct gttcaaaaa 720
caagaaaaac aacaactatg agttatc 747

```

<210> 987

<211> 610

<212> DNA

<213> Homo sapiens

<400> 987

```

ggcacgaggg aaatctagac ctccaagtg atgcagcaga gtctctcca tcttgaaaca 60
aacaaaacat taggtcctcg ttgtatcttg gtttagtaac aggcccttaa ttaacttatt 120
tgtacatgag tcttcagag aacactgttt tatattaact ttcagttgaa atctttcaga 180
tattttgaat ctctgaacaa ccattgtcag ttgtgaatga tggtaaat tttggcatca 240
agtctcataa ccccaactga tagaactggt gcttatctgt ctctcttaag tatttttttag 300
ggttttggtt ttttttttgt ttgtttggtt gtttgccttc acttttcccc caggctctgt 360
gagctgtatg agattcattc atacttcatt tattcattca actaatattt gttgaacact 420
tacatgtacc agacattatt aagtgtctgg tatatggtaa tgaacagaat agacaaggcc 480
cctgcccttt taggggagac agatgagaag taaattmcgg gttatgagaa atgttatgaa 540
ggaaaggmca acaacagaca tgtcttagtc tagggtacat ggctttatag gaaagtaaca 600
ttctctatct 610

```

645

<210> 988
 <211> 394
 <212> DNA
 <213> Homo sapiens

<400> 988
 ttgaaaattg atacaaacag aatcaggaca gaaaatgggt ccattttgcc cagtgttgta 60
 ccacaagaac acaacacctt gccagtatct caggcacctt ccaaaccaaa tctgacaagt 120
 gaacatactt catatggctt aattttaaca aaaccatacg tcagaccatt gcctcccagt 180
 taccttgatg aacgggtatct taktatgcca aaacgcagaa aattttctgac tgatagagta 240
 katgcctgtt ctgatcaaga taacgtgtat aaaaaatcag tgaaaagatt aagatgtggc 300
 aaatgcctga ccacctactg taatgcagra gcacttgagg ctcatcttgc acaaaagaaa 360
 tgtcagacac tctttgggat ttgattcaga tgat 394

<210> 989
 <211> 1481
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (423)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1259)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1481)
 <223> n equals a,t,g, or c

<400> 989
 cgccgcccgt gcctttcttc ttcctcctyc tctccttgg catccgcctc ttcttctctc 60
 tgcgtctctc cccgtgcct ccgtgctcc cgacgcggag cccggagccc gcgccgagcc 120
 cctggcctcg cgggtgccatg ctgccccggc ggccggcgtg aaggatggcg acgccgctgc 180
 ctccgcctc cccgcggcac ctgcggtgc tgcggctgct gctctccggc ctggtcctcg 240
 gcgccgccct gcgtggagcc gccgccggcc acccggtatg agccgcctgt cccgggagcc 300
 tggactgtgc cctgaagagg cgggcaaggt gtctccttgg tgcacatgcc tgtgggccc 360
 gccttcagcc cttccaggag gaccagcaag ggctctgtgt gccaggatg cgcgggcctc 420
 cangsggggg ccggccccag cccagactgg aagatgagat tgacttcttg gcccaggagc 480
 ttgccccgaa ggagtctgga cactcaactc cgcctctacc caaggaccga cagcggctcc 540
 cggagcctgc caccctgggc ttctcggcag ggggcagggg ctggakctgg gcctccccctc 600
 cactccagga acccccacgc ccacgcccc aacctccctg ggctccccctg tgtcatccga 660
 cccggtgcac atgtcgcccc tggagcccc gggagggcaa ggcgacggcc tcgcccctgt 720
 gctgatectg gcgttctgtg tggccggtgc agccgcctc tccgtagcct ccctctgctg 780
 gtgcaggctg cagcgtgaga tccgcctgac tcagaaggcc gactacgcca ctgcgaaggc 840
 ccctggctca cctgcagctc cccggatctc gcctggggac cagcggcttg cacagagcgc 900

646

```

ggagatgtac cactaccagc accaacggca acagatgctg tgcctggagc ggcataaaga 960
gccacccaag gagctggaca cggcctcctc ggatgaggag aatgaggacg gagacttcac 1020
ggtgtacgag tgcccgggccc tggccccgac cggggaaatg gaggtgcgca accctctgtt 1080
cgaccacgcc gcaactgtccg cggccctgcc ggccccccagc tcaccgcctg cactgccatg 1140
acctggaggc agacagacgc ccacctgctc cccgacctcg aggcccccg ggaggggagc 1200
ggcctggagc ttcccactaa aaacatgttt tgatgctgtg tgcttttggc tgggectyng 1260
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ctggtccccct gcacctctcc tgttyggttt agacccccaa actggagggg gcatggagaa 1380
ccgtagagcg caggaacggg tgggtaattc tagagacaaa agccaattaa agtccatttc 1440
agacctgaaa aaaaaaaaaa aaaaaaaaaa aagggggggg n 1481

```

<210> 990

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 990

```

ccacgcgtcc gcggaacgct ggtcnctgan cgttctgtgt ggccggtgca gccgccctct 60
ccgtagcctc cctctgctgg tgcaggctgc agcgtgagat ccgcctgact cagaaggccg 120
actacgccac tgcgaaggcc cctggctcac ctgcagctcc ccggatctcg cctgggggacc 180
agcggctggc acagagcgcg gagatgtacc actaccagca ccaacggcaa cagatgctgt 240
gcctggagcg gnctgagggt ggcygastgc ccacttccag actgggcccac tggcacctcg 300
agggcatggg gaggacccag cgatcccccc ccaccaggc ataaagagcc acccaaggag 360
ctggacacgg ctccctcggt gaggagaatg aggacggaga cttcacgggtg tacga 415

```

<210> 991

<211> 1280

<212> DNA

<213> Homo sapiens

<400> 991

```

agcaccatct ggagtcttcc tgtagtggca aaaaagaaca gtgttgaaat tggaaaggac 60
tttgtgttat ttaggttggt agaattagcc ttaccaataa taagagccct gagcccagaa 120
aaaaggactg tatagttaa agggaggatt gaaagggagg taaaaaatca gattagacca 180
gttcttgccc tatgataagt tccaaaaata ccatttatct actatttgaa aaaagaagag 240
gatatccctt cctacagtaa agggatatgt agctacatga agttgtaaga aaagcttcca 300

```


647

```

gtagagcttc ttatattaaa gaagttgatg gatatttttg aatttctggt ttgcctgaat 360
ccacctgcag ttaccccgat ccgtttgcaa gaaccagatc gtacttgaaa ctatagtggc 420
cacactctgc cttcctgagt cccttccagt catgtgtgca tcatgtctct ttgccaaagg 480
aggggagaaa ggaactttta aactgcagtt ttaacttttt ctaagctggt tcttgatggg 540
agaggttctg tgcaaaacta ccacattctg tccccaaaat gtggaatgca tccaaatagg 600
agtcttctgc ctcttaactt aaaagaacat aggaattttg tttttgggtt ctttatcatg 660
ctacagagag tgaatacact ggaattcaga caccgactct gagctgctag gaacctcatt 720
tgtccatgtg caaacgctgt attccaaggc ctgtgaatgg cagcctgagg aagttttgca 780
tgcaggctgt gttttcgagc aggactaaca actgggaaat aagcaaaaaa ctgcatcgat 840
ccccagcctg gtgttggtct tccctatact tcacactgaa ctcaggatgg gaagaaaaag 900
gaaacaagct ttgggttttt ccactcctaaa agtattgtgg cacctcaaca tttcagtgtt 960
ttgcttttta aaaaatgccc tattgttaagt tgttggttta tactgtataa gtaacactag 1020
tagctgtttt gaataacata ggtgctcttc ctcactctcat ctcctacacc gtggtgagca 1080
tacagagtgt cctgatttgt gttaagtgcac tgagaagatg ttaattactt ttgaaaaagg 1140
atcatggttt ttgctctact ttataatcaa gacaagtgtt tattaataa ctgttttgga 1200
atgttggctg taatgtaaca gcaattttta taataaaagg cattcatctt taaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa

```

<210> 992

<211> 1057

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (989)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (994)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1012)

<223> n equals a,t,g, or c

<400> 992

```

gctttatgac aaagaatata attgggagga tgaagtgtct taaaaattgt agagaccagc 60
tacttggaat gtttttccat ccctgtattc atggcttgac tttgtgactg ctctacactg 120
catgtctgac attgcagagt gagctatggt gaggtaaact ggttggttgt cattattttg 180
caatcagcct ggtctctccc atgaagatgt cgtgtgcata agcacaatca tcaactgatta 240
gaagatcaca gcagaatacc cttggattag agagaagttc gtaccttgca tttctctgaa 300
ttctagtctc tcataagcac tgctttgctg gatgattttc actgctttgt gttaatgact 360
ttgagcgatc tctcacatga tggggttcct tagtacatgg taacagccat gtcactcttac 420
acacctagca ttgtgaatgc tgtagtgcac tcctttatag gcaccttaca gctcaaaaact 480
tttgtttcat ttcattgcctt acttatcaaa aaggcaggaa agtaggtatg atctctaaag 540
taaaaaaaaa aaaaaaaaaa aaaacttttt atagaaagct cataaataat catgtcattt 600
tgcaattttg ttaccaaatt ttcccccaag agttttcaaa tattagttct gcaatgtggc 660
tatgaaatat gcactgaaat atacctttta atttgagaac cagtgggttag aataagctgt 720

```

648

```

gatataaagt attttcagtg tactttttaa ggaactataa ggccctccag cataaacgct 780
aaaagaatag atggtagcac aggccatgag ggctggggga gagaagcaga gtgaacctta 840
gaaagatggc tcagctatct ggagcactgg atattttact gaagttatct actgaggcac 900
catcactgtt ttgactgtac agtatagttt ttcataaatt tcatcacatt tactttgttc 960
agaatctggg cttgaatctt tgagttggnc aaangcctat ggtttctttt anaaagtctt 1020
atcttgagct aatgctacag tttaaataaa atgtatg 1057

```

<210> 993

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1043)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1058)

<223> n equals a,t,g, or c

<400> 993

```

cactcagctc tgggtggcct gagcgtgggg accctcagct ccctgacact gccctgtctc 60
cacaggccca taacgacctg tgcgcacgta tkaggcaaag ctgctggcct tcgggatccc 120
tctggacaac gtgggcttca agcccttggg aacagctgtg atcggacaga cgctgggcca 180
gggccccgcg ggactggtgg gcaccccgac gtactgtccc ccctgggggg ccacagccca 240
gagaaccagc ctaggaacac tcgggatgac accccttata acaccaagga cagcaagttt 300
tttagatctt atcatcagca aatgaaagct tttcacatgt tcttgccatc ctctttcctg 360
gctctgtgga ggagaaccac ctgcaggact ctcacccatg gtgtccctgt cgctcccttc 420
cctgggtgcc gcacgtccag cctgtgtcca ggcctactcc ctggtctcac ctccgaccac 480
agtgcggcgc accttctcag agtgccccgc ctcacctggg ggttggggca gtgcgcgtg 540
tgctgcctgt cttcgcgcca ctgttgtccc accgaatgga cagctttgca ggtgctggca 600
ctaacttcat tgacacctga gtcacagctg cccagtggga ttctccaggg ggccgggact 660
tccctaggaa gtggtgagcc aatgctccct gatgagcaca aagcccgtc tgttgagggc 720
tgggtgggtg cagccagcgt gcgggaaagg gcaggcagcc tcccgtgccc agtcttcgct 780
ctaactccct cggtaggtga tgtaggacca ggggcacgtg gaacttctgg gccttgctgg 840
tgatggttaa aacaacctga gatggagagg ccaggagaga gtataagggg atagcagcaa 900
accacctatc tggccccaac acacctgaga gaattcagca gccagactg agggctctgg 960
atggggtgaa ccttcgcgac cagagggaca ctccacagaa gccacagccc agtaagtcag 1020
gcgcttctgc ggcggctcca gtntggggtg aggcagtnag gttaggccca gagagctgga 1080
gttggtcag atgaa 1095

```

<210> 994

<211> 378

<212> DNA

<213> Homo sapiens

<400> 994

```

ggcacgagct ggtctcgaac tcctgacctc aggtgattca tccatctcag cctcccaaag 60
tgctgggatt acaggcgtga gcactgcgct gggccaggta catttggtga tgcagtcttc 120

```

649

```

tttttaaata tttttaaaaa tattatttta aaaaatattt tgtagagaca agctttcact 180
atgtttccca ggctgggtct gaacttcttg cctcaagcga ttcttttgcc tcagcctcca 240
aaactactgg gattacagca tgagccatca tgcccagcta tacagccttc taatttacta 300
aataacgttr atgtgcttga tcatgttccc tggaaaacag accctgagaa ggagatttgc 360
atgcaggaat atttattc                                     378

```

<210> 995
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (418)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (433)
 <223> n equals a,t,g, or c

```

<400> 995
tggaactccg ggacatccct ctgcgtcccc accctcccga cccccaagct cctcaacgcc 60
gaagcgcccc cgaactgccg gaaggaatcc taaaaggagg cagtcttccc caggaagacc 120
caccaacctg gtctgaggaa gaagatgggg cctccgagcg agggaatgtg gtggtggaaa 180
cactccacag ggccccgctt cggggccagc ttccctcctc cccaacccat gctgactctg 240
ccgggggaaa cccctgggag tcctcagggg aggaggaaga agaggggcct ctgttccctga 300
aagctggcca cacatccctg cgcccaatgc gggctgagga catgctcaga gagatccggg 360
aggagctggc cagccaaagg attgaggggg ccgangagcc ccgggacagc agggcacnga 420
agctgaatcg ggnccagctg                                     440

```

<210> 996
 <211> 222
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (222)
 <223> n equals a,t,g, or c

```

<400> 996
gtgggttgat accccttcga attacccta aaggacaaaa cggacccacg cggggggccg 60
ctctagamta gtggatcccc gggctgcaga attcggcaca gccagattgg gttccctttg 120
caaaacatcc cccttcttg agatgatgat gccatcgaag cccgggccag ggcctgacct 180
gcaggcacac acctggccag tggctctgag gtccccggga cn                                     222

```

650

<210> 997
<211> 772
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (769)
<223> n equals a,t,g, or c

<400> 997
gtgcagcatc aacgggaccc tgtaccagcc cggcgccgtg gtctcctcga gcctgtgcga 60
aacctgcagg tgtgagctgc cgggtggccc cccatcggac gcgtttgtgg tcagctgtga 120
gaccagatc tgcaacacac actgccctgt gggcttcgag taccaggagc agagcgggca 180
gtgctgtggc acctgtgtgc aggtcgcctg tgtcaccaac accagcaaga gccccgccc 240
cctcttctac cctggcgaga cctggtcaga cgcagggaac cactgtgtga cccaccagt 300
tgagaagcac caggatgggc tcgtgggtgt caccacgaag aaggcgtgcc ccccgctcar 360
ctgttctctg gacgaggccc gcatgagcaa ggacggctgc tgccgcttct gcccgcygcc 420
ccsgcccccg taccagaacc agtcgacctg tgctgtgtac cataggagcc tgatcatcca 480
gcagcagggc tgcagtcctt cggagcccgt gcgcctggct tactgccggg ggaactgtgg 540
ggacagctct tccatgtact cgctcgaggg caacacggtg gagcacaggt gccagtgtg 600
ccaggagctg cggacctcgc tgaggaatgt gacctgcac tgcaccgacg gctccagccg 660
ggccttcagc tacaccgagg tggaagagtg cggtgcacg ggccggcgst gccctgcgcc 720
gggcgacacc cagcactcgg aggaggcgga acccgagccc agccaggang ca 772

<210> 998
<211> 552
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (548)
<223> n equals a,t,g, or c

<400> 998
ggatgttgga aactggctgt agagccgcag tggttcctga tattaaagaa atgttggtta 60
aagctgtttt tcttacaccc tatgtgcctt tgaaatttta aaagcattca ctttacacat 120
ctgttttgcc tttttacaaa acttttttta aagagagccc tctgccacca aaatatgctt 180
gacctcatca tctgagatc actgctatca aaatatgttg tgtatatattt ttccctagct 240

651

aatttgtgtg tgtatataca ttctatataa ttgttttatt gtgtacaatt tgtgtaacta 300
ttatctgctt taaagggttta acagtacctt tttctgtcat taaatagtgt gcaaaagcat 360
gtgtagtaac tgcactatat gactgtctct ggtccagagc ataaaatttct tcaactggtct 420
cctgtacang ggtctgcaaa cttttaagtt ggctagccta atacatattt ttagactttg 480
ctggtgatat ggtctcctgt cctaactacn ggaccctggt ttttttttaa gaacaaaaaa 540
cgccgcangc tt 552

<210> 999
<211> 681
<212> DNA
<213> Homo sapiens

<400> 999
aattcggcag aggcagtgga ggcgaacttg gtgcggggtg ccgaggtctg gctggatgag 60
tataaggagc tgttctatgg ccatggagac cacctcatcg accaagggct agatgttggc 120
aacctcaccc agcaaagggg gctgcgaaag aaactgaagt gcaaaaagttt caaatggtac 180
ttggagaatg tctttcctga ctttaagggt cccattgtga gagctagtgg tgtgcttatt 240
aatgtggctt tgggtaaatg catttccatt gaaaacacta cagtcattct ggaagactgc 300
gatgggagca aagagcttca acaattttaat tacacctggt taagacttat taaatgtgga 360
gaatggtgta tagcccccct ccctgataaa ggagccgtaa ggctgcaccc ttgtgataac 420
agaaacaaaag ggctaaaatg gctgcataaa tcaacatcag tctttcatcc agaactgggtg 480
aatcacattg tttttgaaaa caatcagcaa ttattatgct tgggaaggaaa tttttctcaa 540
aagatcctga aagtagctgc ctgtgaccca gtgaagccat atcaaaaagt gaaatttgaa 600
aaatattatg aagcctgaag tgtaactgat gtttttatat agtaaaccca ttaaatactg 660
tgaaaataaa aaaaaaaaaa a 681

<210> 1000
<211> 689
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (639)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (672)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c

652

<400> 1000

```
gcgtggggcc gggcggtgcg gtcgcgggct ggggcagtgc agtgagtagc ggtcttgggg 60
tgtgcgatct cgctgagcct cctcacacgg ttcgtcgtct cgggttcgag cccagtggct 120
tagccactcg ccatggactc ccagaaagaa gctctacaga ggatcatttc aactctggca 180
aataaaaaatg atgaaattca gaactttatt gatacactac atcatacact aaaaggagtt 240
caggaaaatt cgtccaacat actctcagag ttagatgaag aatttgatag tttatactct 300
atactgggatg aagtaaaaga aagtatgatt aactgtatca agcaggaaca agctcgtaaa 360
tccaagagt tacagagtca gattagtcaa tgtaataatg ccctggagaa ctctgaagaa 420
ctattagaat ttgcaacaag gtcattagat ataaaggaac ctgaagaatt ttcaaaggct 480
gccagacaga tcaaggatag agtcacaatg gcttcagcct ttgcctttc tttgaaacca 540
aagggtcagt acaacatgac tcattttaatg gtggatttct cacaggaaag acagatgctg 600
caaactttga agttttttgc cagtcaccaaa arctccaana tagatccagt tanaattggt 660
tgggtgggca anataacttc ctgttncaa 689
```

<210> 1001

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<400> 1001

```
gatgattggt aggatatttt aacaatgaag tattttttaa ttaaggtagt tattttctta 60
ggcataatgc tattgcacac ttagtaaaact acagtatagt ataaacgcaa cttacatgca 120
ctgggaaact gaaaaaatta tgtgacttgc tttattgaga tactcacttt attgtgggtg 180
cctgaaacca aaccgcgagt acctgtgagc atgcctatat ttgatacaat aggaactata 240
ttgcaggtag taaaaaatga tgaatagtgt tagttcaaag cgatagatga tttgtatgtc 300
caaattaaag aaaagcatgt atgggaaaaa gattgtcatt tttatgtaaa trataaagt 360
ctttctgaat tgtattttaa gaaaagaaga ttttataagt ccaaagaatc acttaataca 420
atgaataaag ggtaataatt taccactttt ggattacctt twatttaaga cataaatttt 480
tcaactcata agctwtttaa aawcttttca cttaaraaac ccggtggaaa atttggnnta 540
agg 543
```

<210> 1002

<211> 469

<212> DNA

<213> Homo sapiens

<400> 1002

```
aacctttcca cactataaat gatatgacta ctgtttgggg tttctggggc cccatccgtg 60
tacgtatgtg gcatttccag gtatgactga gtgtgagaga catgtcagag gctcttcagt 120
gatttcttgc tattgaccga tgcttcactg tgccaaaaga gaaaaaaaaat gttgggtttt 180
gtaattaaat tatttatata tttttgaaac ccgaattgaa aatgtttgcag gcaacgggct 240
acagctttat tagtggttct ctaactgtgg tctccttggg ccaagcaatt tctttaaagg 300
aaaagttgat tatgtatgtg ggggtgccagg accactgcct tgaaagcaag tgtgattttt 360
atttttaata ttattttatt tgtgtctgtg tacatattca tgtataaatt ttatgaaacc 420
caagcatagt gcttattttt taataaaaca actgacttaa aaaaaaaaaa 469
```

653

<210> 1003
 <211> 543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (90)
 <223> n equals a,t,g, or c

<400> 1003
 ccgggaaaac nttcaaawgt awscctaaag caactggaag graaaatgaa gcccamtgna 60
 gtgagtga aaactkgaa ggaaagtgg aarattccag agttccawtt cctatcctag 120
 gttaaatttg gagacatacc cagagcataa gttaagtaag taattgaaat attggagtgg 180
 agacttattt gtctaccgaa ttattgtttt ctttgtcgga catacaccta cactgcattc 240
 cctcaaagta aaatttaagt gtggctctgt gcctatgctc tccccagcgg aaagtgacca 300
 gaagaggtgt gcagtttccc aggcctggcc catcacagacc tccaacaggt gctcccctgt 360
 gctgttactc cttctgccaa ctggaagcag atggtgacca ggctctggag aaggcaaggc 420
 ctgaagatgg gagattccta agtggaggag aactgtgcct tactgaccta aatatccact 480
 cagtattgtt atgtgagaat aaataaactt gtgttgaccg tttaaaaaaaaa aaaaaaaaaa 540
 att 543

<210> 1004
 <211> 895
 <212> DNA
 <213> Homo sapiens

<400> 1004
 tgtcttcatt tttcctcctg tctgcattcc tctctctctc tctccctctc tctcctgttc 60
 ctctctttct tctcctctct cctgcctttt ccattttccg ttccttgggt ttgtgtgtct 120
 gcatctccat cttaccctct gctgactgt accccgtaga cccctgtttc tctcctgca 180
 cctgtgtccc catctgccct tcttgttgtc cctgtcatgt gtcaccatct tccctcctgt 240
 ctgccttctt cctccacttg tgtcagcttg cattttttta ttcctgactg agtcaccaca 300
 cccctctccc ctgatcaaag ggaatattag tttttaattt ggatcgactg aggtgccagg 360
 agaaactgca gtcccaggta tccagacagc caccaggatg gtccctcgcc ccacccccac 420
 cgctctctcc caccttttcc aacgtgttgc atgctgggag ctgggggggtg tgggggaagg 480
 ggctgcccgc ttcttttcagg aggtgagggt ttggaggcaa aatcaacctg ggagaccacc 540
 ccggcccgcg cgctcagtg gacaggtggg aggaaaagaa aacttcttac cttggaggag 600
 ggacatcccg ctctcttctc cttagctttt ttgttgctcc tccccactgc cccttttaaat 660
 ttatttggtt gtttgccggg ggagggggga ggggggtagg ctggggccggg aactgtccga 720
 ggtgctgagc tggggcgagg ccggaatcct cccggtaggg tcccaggggac tgagttggcc 780

654

tgggggccgtg tccaaggtgc caatgatgcg ggccgacaga gcggggccgca ctgtctgtct 840
gtccgtctgt cccggaaaga actataaagc gctggaagcg cctgcaaaaa aaaaa 895

<210> 1005

<211> 763

<212> DNA

<213> Homo sapiens

<400> 1005

gggggcttca tcgctcatag aatatgttat tttcaaagaa gttcaagaat tttcaagttg 60
agcctttgaa aatcccataa attgggtttta gctaaacact tactagtagt gtctttaaat 120
tatttaataca accttgtctt ttcaaggaaa ttaccctactt aaagagatag ttggtaaata 180
aacatctatg ccttttctca gaaatgattt gctgaactat gtccatattt tacagcttag 240
ataatagttt atatggaaac tattatacat ctgctattgt gcaatgattg ttaaattata 300
ctgaagtagc tctagaaaga cacatgtata caaggcacta ttgtacacac tttgctgaat 360
attttgtcag ttgtattttac aaagaaaggt actttcttaa gagcatatat gttattaata 420
tttgatatga ttttaaagtc agaatagtac agattgctga gtattatact ttaggctaga 480
ttaattaaaa ttgaatactg aaagagattt tttgagttgc aaaaagtta taaatgcaaa 540
gcaaaaagaa aacattttatt ttctgagtct gcaggagaaa caaactaaac attatagttt 600
tatagctgct atcttggttaa ccaaacaggk tgttcataat attaaaaatc ttacgtagtt 660
gtgttaaact gaaccagttc attatacctt atgcattaaa ttaaataatgt tataaggtgg 720
ctttacttgt ctttataaaa ataaatatat ctactaaaca tga 763

<210> 1006

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<400> 1006

ctcactaaag ggaacaaaag ctggagctcc accgcggtgg cgcccgctct agaactagtg 60
gatcccccg gctgcaggaa ttcggcacga gattttttgt gtatgtgttt cttcccagat 120
agctacatta ttggttactt gccaaacaacc ccatatactt actattttca aaatctaagc 180
agatagcaaa aagctcacca cagancataa aatgaatgga ttgctttttt aaaaaaagtg 240
gataattgaa tgaataaata cattttattgt ctctnattga acctgcttgt aagccctaca 300
tantgcccac acagccctaca aattcacatt ccacatgggc gactccacct gct 353

655

<210> 1007
 <211> 546
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (535)
 <223> n equals a,t,g, or c

<400> 1007
 ggtgatgaac agttctgtat cctgattgcg gtgggtggtaa cgtgagtcta tacatatggt 60
 aaaatttata gaactgcata ctctcaaaaa aattagtttt actctataat aatattagag 120
 cttaaaaaat tcatccctct tgcccatcag tagatcagga tatgaaggat accattgaac 180
 ataaatattt tgtatccatg atgaatacaa agtatattct cctggaaaac caatagaaca 240
 ttcataataa tgattcctat gaaggtaaaa aacttacaaa attcaaagat catacagatc 300
 atgtgctctg tataatgtaa taatagtaac aaaaggcctg tccacttgga aattttttaa 360
 tgatcttcta aataactcat ttaaaggaga aatcaaaaata aattgcaaata tatttagaat 420
 taataaaaaac ttctctaaag ctgaggaatt ctaccmaaga ggtggttagag gaaattgtat 480
 agattttgaw ttactttyca rggaggaaag gaagrccaa gagtgratta aacantttaa 540
 aagctt 546

<210> 1008
 <211> 4015
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (4000)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (4010)
 <223> n equals a,t,g, or c

<400> 1008
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 gggcggtgcg gcttgtgctg agccggaggt gggggccgaa ccagccaagg ttgcgggggc 180
 cgcagagccg gacgaagacg gagggcggag cggcttcggg actgcggaga ctacacaccg 240
 agcgagcgcc tgggcccga gaggcgatgc tgtggttcca gggcgccatt ccggccgcca 300
 tcgcgacggc caaaaggagc ggcgcggtct tcgtggtgtt cgtggcaggat gatgatgaac 360
 agtctacaca gatggctgca agttgggaag atgataaagt tacagaagca tcttcaaaca 420
 gttttgttgc tattaaaatc gataccaaaa gtgaagcctg cctacagttt tcacaaatct 480

656

```

atcctgtagt gtgtgttcca tccagtttct ttattggaga cagtgggaatt cccttggaag 540
taatagcagg aagtgtttct gcagatgarc ttgttacaag aattcacaag gtccgacaga 600
tgcatttgct aaaaagtga acatcagtag caaatggcag tcagtcagaa agttcagtg 660
ctactccatc tgcgtcattt gaacctaaaca acacttgtga aaactctcag tccagaaatg 720
cagagctttg tgagatacca cccacttctg atacaaagtc agatactgca acaggaggag 780
aaagtgcagg ccatgccact tcctctcagg agcctagtgg atgctcagat cagagacctg 840
cagaggacct caacatccga gtggaaagac taacaaaaaa acttgaagaa aggagagaag 900
agaaaagaaa agaggaagaa cagagagaaa ttaagaagga aattgagagg agaaaaactg 960
gaaaagaaat gttggattat aaaagaaaac aagaagaaga attaacaaaa agaattgctgg 1020
aggaaagaaa cagagagaaa gcagaagata gggcagctcg agaactgata aaacagcaga 1080
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atgcaagaga aagaagcact gttgcaagaa ttcaattccg tcttcctgat ggttcttcct 1260
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ccaaagaaga ttataaaaag aagtactgg atttggaaact tgccccaagc gcttcgggtg 1440
tactgttgcc agcaggaaga ccaactgcat ccattgtaca ctcttcagc ggagacattt 1500
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gctaggtcct tgcttatatg gcaaccactg ctagaaccct aaaagaacca aaaatctgcc 2040
acagcctgcc tccatcagct tctatttag tatttcatat gccattagc cctatgcttc 2100
agatgacacg tttgttttag agctactttg ctccaagact cttaagccca aagtaactgg 2160
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tttatgttta acttctcttt ttactcatca gctgcaagca aaatcttgta gtttttaatc 2280
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tttttttccc cagtattgcc ctggagctgt ctctggaaag tagctggcga ggttacctta 2460
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cagtgaggca tcactttgtt tgcataaagt atacggtttg ttaaggcctt tgttcttg 2580
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atatgccttt agtcatttgg ttttcttaa aaagttgaga ttcttaattc gacttacatg 2760
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gctgttggtg ggagtgaaaa ccagtataat tcttctgaaa aacattttatc agaaacttaa 3060
aatatttcat accgtttgat ccagtacctt cttctaaatc ataaatgcag acaatgttta 3120
ggtaaagaca tactcattaa gtgttattta ttttactcaa gaactggaaa ccaactaaat 3180
gccttctata gaagtaattt ttgatgagga gaaatggtac aataactaatt aacaacttgg 3240
tttaacatgt ttactgagca tctgttaagt gttgggggaa aaagcagcag gatccagagc 3300
tataggtaga gtgtgatctc agctttgcaa acacattttc tacatagata gtactaggta 3360
ttaatagata tgtaaagaaa gaaatcacac cattataaat ggtaagattg gtttatgtga 3420
ttttagtggg atttttggca ccttatata tgttttccaa actttcagca gtgatattat 3480
ttccataact taaaaagtga gtttgaaaaa gaaaatctcc agcaagcatc tcatttaaat 3540

```

657

```

aaagggtttgt catcttttaa aatacagcaa tatgtgactt tttaaaaaag ctgtcaaata 3600
ggtgtgaccc tactaataat tattagaaat acatttaaaa acatcgagta cctcaagtca 3660
gtttgccttg aaaaatatca aatataactc ttagagaaat gtacataaaa gaatgcttcg 3720
taattttgga gtaggagggt ccctcctcaa ttttgtattt ttaaaaagta catggtaaaa 3780
aaaaaaattc acaacagtat ataaggctgt aaaatgagaa ttctgcccc tcacctctta 3840
ccccagtact attctccaga ggtaatctat taacaatttc ttatgtaatt ttcagaaaaat 3900
ttgtatgcgt atataagcaa atatgtaatc tttatTTTTT aaataaatgg gatcatatta 3960
tawaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 4015

```

<210> 1009

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 1009

```

gaactgttga aaaactgttg tactgatgtc accggtgatt gaaggggtat ctttaattgg 60
ctaatttgaa agaaagycac aaaagaaagg catgaataac caaaatcctg ggatatttct 120
gaaactcagt cgaggtcagt agatctgtct gggactacat tttccatccc agttcctaac 180
aaagtttcat tttcttttct ttattctctg atgtaagagt taacagtga atgacccaaa 240
tcctgaaagc caatggagca acaataaaca tactcagata gattgcctca taaattcttt 300
cmagttagtt tttaaaagta acacattttt taaaagtcca cttkgcaaaa tgataattta 360
atatctgggt atcagnctct ccaaaggatt cctggaaaaa g 401

```

<210> 1010

<211> 756

<212> DNA

<213> Homo sapiens

<400> 1010

```

gcggtgcacca gccagacctc atgaactcag gaaggtgctt gtccaggagt tcctgggtgc 60
tgtgcccttc acaggcaaag actgcatttc ttcctcagct gycagtgagg tgctgssagg 120
attccctgta gaactktcag gccagtttat gaactgggtg gmaccygtgt cctcytctg 180
gcccaggmag gagaaccatg agcaggcaga aggagacttt gcaaagtgcc tccccagca 240
tgtgtgccct ctgcccttca gagcctgcag atakkagggg tggcaaggac actgttctca 300
atgagcagaa cctccaagac acccaaagct gcctgtttgc cacctggccc tatgcctgcc 360
ccgttttctc cctcaaggcc ttcacccatg ctagggcagt cacctggaat gtcctttcca 420
ttacccctgc tgtaatgccc agcacagaac ttgatggcag gcctttgcat ggtagcctga 480
agcgatctca ccttctaac tgggtttgccc acaggcacac tggctcatgc ttacctgtgc 540
tgctgtgggt tatagttatg cgaattgtgg ttttacatcc ctaaaacaga agggcacggt 600
gtccagggga tagcaccag cccaacttca gtgtagacct gagctgggag ggaacctgtt 660
agtctcccca cctcttccct gaagagacag gcacccctcc cagccgtggt caacggaggg 720
agtggcactt ctgccttgag tccccagggg aaaaaa 756

```

<210> 1011

<211> 393

<212> DNA

658

<213> Homo sapiens

<400> 1011

```

tcgacccacg cgcccgtaag atatgacagg tggcgacaag tgctgagaag aaaaattgag 60
gaggggtgagg gagtagagtg gccaaagagcc tgggttttcag cagaggggagc tggagaatga 120
accagggggc gctggagctg ggggcgtggg agagtgtcag agagctggca tgaactggca 180
ggttgcctgg aggggagggc tggttccaaa gccagtctta tagcaatttt tccatttctt 240
gatagtgaac tttggaagag ctagggggtkg ggaagatggg aagttgaacc acctctgaga 300
taaaactctc tgarggggct gargtkgwcc tgggttgggg tgcccctgct actggcmaga 360
gagaagcmaa ctccatatgg aagtaatctg gtt 393

```

<210> 1012

<211> 938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<400> 1012

```

ccggcatcgg ccaccacggc caccggggcca cgcccaggcc ctgctcctcg atgccctctg 60
cctgctcctg gacattcttg cacccaagct ccgccccgtg agcacacagc tgtacacacc 120
cgtgaaaagc aacagctggc cagcctgggtg ggcacgatgc tcgcttacag cctgacctac 180
cgccaggagc gcacgccccg tggccagtac atctacaggc tggagccgaa cgtggaggaa 240
ctctgccgct tccctgagct gcctgcccgc aagcccctca cctaccagac gaagcagctc 300
atcgcgccg agatcgaggt ggagaagatg cggcgggcgg aggcttctgc ccgkgtagag 360
aacagcccc aggtggatgg gagcccccca gggctcgagg gtctgctggg gggcattggg 420
gagaaagggg tgcaccgacc tgccccacgc aaccatgagc agcggctgga gcacatcatg 480
aggcgagcgg cccggggagga acagcctgag aaggacttct ttggacgtgt ggtcgtcagg 540
agcacagcag tcccagagtgc aggggacacg gccccggagc aggactcagt ggagcggcgc 600
atgggcacag cgggtgggcag gagcgagggtc tggttccgct tcaacgaggg tgtctccaac 660
gccgtgcggc gcagcctgta catcagggac ttgctctagt tctctgagcc gcggacatgc 720
cctcgcattg cttcccgcag agtgcagaga caggaagctg gagatgtctt tataaagtca 780
cacctttaca gactgtaaaa aaaaaacggc angagcatga atgtatgaac tggaggaagt 840
tacttacagt ggggaagggtt cttataataa aggtctacct agcatgaagt atttaacatt 900
ctcccattcc cttaaaaaat atacatttta ttaaattg 938

```

<210> 1013

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1013

```

gaagaaactc actttccctg tggcacgtta atcttcattg ttttaattct gaagcataac 60
gtgccacagg gaaagtgagt ttctttactg tttgccagca gcaaggacaa aaagtgaatg 120
gtggggggccc aggagctccc agcttgagga gaaggccctt ccagaccagc gaaccggggg 180
tttggggcag gaggcaggaa ggatgggagg gtgtgatcac cgacacacac acacacgttc 240
tctctcttca ggggaagggtt ttccagaagc atttgccccat actctgaatg aagtattttc 300
atgccaaagg aaacctcctg aagagaagtg aattcatggc tgaggggaggc acgtgccctg 360

```

659

```

gctggggatg cacctgaacg ctgctcttca gcaagtgagt tcatagcatc caccagagct 420
tcccagctcc tcaagctgaa gacaggctga gcaaaaacca ggcaggccat gaggggattc 480
aaagaaacct aataggattg ggtgcggttg ctcacctcgt gcc 523

```

<210> 1014

<211> 232

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<400> 1014

```

gcaaaaaggt agctggagtg ggtttaaaat ttcgtataat ttcgtatgtg agcaagctgt 60
gtgatattaga ttatttttaa gattaaatgt ttttcaggta ttaatggtaa actataaaat 120
gtttgcttct gtataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gnggccgtn ta 232

```

<210> 1015

<211> 423

<212> DNA

<213> Homo sapiens

<400> 1015

```

tttttagagaa ctttcagagc actgattttt gatagactaa gtggaaaatt tgcagagaaa 60
tgatggttgt aagtggacat gcaaaccaaa attggggatt ggagaagtca gactcactag 120
acttttggtt cgagtactat tgaactctct cctgatgaga agatgttttag ataagtacaa 180
gttaagaaaag tagcatatga ctggaaacta tattcagtgct actttctcca aaagactacc 240
cagaaaaata gacttatttt caaataccag ttatcaagat atattaaata gctgtattgt 300
ttagaatctt aatatgggat aaattagcat atgtattcac aatattcatt cagacatcat 360
tcccagacag cagggattta tttaaatggt agctgtctga gttttttaa atagctaatac 420
aca 423

```

<210> 1016

<211> 874

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (802)

<223> n equals a,t,g, or c

<220>

660

<221> misc feature

<222> (866)

<223> n equals a,t,g, or c

<400> 1016

```
catttttagcc ctaaattacc tgtggctggt tctttttatt tttttgacta cttttatatt 60
ataaatgtgt gttactgtct tatgaattca tggcaatata gttggatagc ctggatactt 120
tgtttagatga gtatttagct gtgtctgcaa atcttaaaag ccattagcaa agaktcgtgg 180
tatttttttc tttattttta aatgtttggg caccaaacct aaaagcaaaa gattgacgaa 240
rcatgtttct cttaaggcta ctgtattttt acaatacaat attaaattat ttaatttgag 300
aaatttagtt ttgcttatat gcacttttta aatatatact attttgaaga ttccttatgt 360
aaatgcaaat ttcctagtta aaaccgaata acagagatct gaaatgactg agaaaaactt 420
ttttattaaa ggaaggaatt aatttaaggc aatttttaac tatgtagaac taattgcca 480
tgtttaatta tagcagacac gccattctaa cagggtatttg ataccattgg atgcattatt 540
ctagggtttt tctttaataa aaatggaaca agttttcatt tacattccaa gctgtcagga 600
aatgaagaat attttattat ctaggatttt atctgatgta gttgcttaaa gatctgatgt 660
gctataattc catgaatcag aaataataaa atgctatcat tctggatctg aagacttttg 720
atactttttc aaaagcaaaa ttaatttcag gaacctttga taagttgttg ttataattaa 780
tctaattttg tatagttttt gnaataaat taccatcctt cacaattagg gatgctttta 840
tccccccatc actaaattgc agttgnttga tacc 874
```

<210> 1017

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1286)

<223> n equals a,t,g, or c

<400> 1017

```
ggcatataag gaatcttcaa aatagtatat attnaaaaag tgcataaag cactttttta 60
atatatacta atttgcatth acataaggaa tcttcaaaat agtatactat ttgaagattc 120
cttatgtaaa tgcaaatttc ctagttaaaa ccgaataaca gagatctgaa atgactgaga 180
aaaacttttt tattaaagga aggaattaat ttaaggcaat ttttaactat gtagaactaa 240
ttgcccattg ttaattatag cagacacgcc attctaacag gtatttgata ccattggatg 300
cattattcta gggtttttct ttaataaaaa tggacaagat tttcatttac attccaagct 360
gtcaggaaat gaagaatatt ttattatcta ggattttatc tgatgtagtt gcttaaagat 420
ctgatgtgct ataattccat gaatcagaaa taataaaatg ctatcattct ggatctgaag 480
acttttgata ctttttcaaa agcaaaatta atttcaggaa cttttgataa gttgttggtt 540
taattaatct aattttgtat agtttttgta aataaattac catccttcca caattaggga 600
tgctttttat ccccatcac taattgcagt tgtttgatac caaaataaat ttacgtagag 660
atccttaact taaaataaat taattttttc aaaaaacata aatctggaac tggtgtttct 720
atatttgata acaataacag tatattttat ttataagcca tgggtctactg atactgtatg 780
aggactttcc ttatatataa aagttgcagg gattgtgttt tattagctgc ttttaattatg 840
```

661

```

ttaatttttag agagttttta aatggaaata gaggacattt atgaaacgct ggaattgcag 900
ttacaaattc tttttgttgt tggtgttcct gaacatgcct tggaataatt ctaccatttt 960
ttccccctcc ataaatcttt ctaataaagc atagaaaaag cctatatgat tttaaatgcy 1020
tctcttaagc tggtaaacag atttgagtta tgagttcatt gttattgcct tcaagatgaa 1080
aagacagtga tataattttt ctatttcaac ttaaaagtaa tagttaatat gctaaagtag 1140
tacagaataa actttattgc tgcttactaa ctacaaaata ctgtagatgg catctgtatg 1200
attaaacata taaagtaaaa caggtctgag ggctttgtag atgattaaag tctccacctt 1260
catgaaaaaa aaaaaaaaaa aaaatnt 1287

```

<210> 1018

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 1018

```

attgtgatga gttatccagt aacttacagc atatcagtg c tttctgattc ataagataag 60
tctgttcttt aaaagtactt aactaaagta tatgctacta caataaaaag ccttsaagta 120
tgtcaatatt aatccccaaa ctacctcaag aaatcccttt aacctccaga aattatcact 180
gtataattga catacaactg aaaaatacag cacatcgaat ctagcaattt atcctattaa 240
ttgccttatt aaggtaacat ctttcaaagg gaaaaaaata aatttttagta atgtttcagt 300
catcttttaa tctaaaattg tgaagacatt ctgaaacttt gcttagttta caaatataaa 360
gatttccata ctgacaatta ccaaatacca aataccttta ctggaaagaa acctagtgtg 420
aaacnattac cgggatcaag tagcctaaaa tttagtangg ng 462

```

<210> 1019

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

662

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<400> 1019

```

cactacccta ntaaggaggt catctctcct aaatttatatt caccctgact gtgggggataa 60
tcatactcct caattcaggg natactatta ttatcagtct gtccaaggcc tctgttggct 120
tattttattt ttttaccccc tttatcacta ctccccatt tcctccnaaa ctttcataag 180
caaaaactta attgtctggc atctgtcttt ggatatggag tgtttctttr aaaaawatta 240
agtgttgttt tacatatatg tgtgtgtgwt twaaattttc ataaatggca atatgctatg 300
aatagccttc ttttatattt ttcattaaat actctttcaa aatgaatcca tgatacagca 360
tggtccc                                           366

```

<210> 1020

<211> 750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (684)

<223> n equals a,t,g, or c

<400> 1020

```

ggaagaacca gcagtgaag atggantagg aagcagaggg aagaggggaa ggatgtgttc 60
acaggagagg ccaagaggca gcgggggtgg gatgaggggt gcaaagcgtg aatttatgca 120
tttctccagt ctagggttag ttagtatact ccctgtgaat gtcaatacct gtaaatagata 180
cttttaataga agggagatta tccccttgaa tgtttggttt gtatcttgtc ctagacccag 240
agttgccatt ctctaaatat ctaaatagact attattattt tatctctctc ttttacacac 300
acacgcgcac acacacacac agagaaatgt tgtttatgag attttgtata tttcacatac 360
ttcatattct ttatatgata gatgaataat gtgtagtgtt tcaaagtttt gagttaatta 420
caatttaggt actattttcta aaaggaagat atatttgtgt tcttactttg gtggctgaga 480
ttactttaaag gggataattt gctcccaaat tcctaagaat ggtacaggaa ttctaagggtg 540
actaattctt atttcatttt tttatgaata cttttatctt gaaatgtgta atacaaatct 600
ggtcagagtt ctatataaaa attatatttg gaatcagact tatgtgtgtg tactttttat 660
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<210> 1021

<211> 1333

<212> DNA

<213> Homo sapiens

663

<220>
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<222> (133)
<223> n equals a,t,g, or c

<400> 1021
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cttagaagta gtncaacgaa tgcagttaga tttacatgaa cctccactgt cccagtgtgt 180
ccaatgggtt gatgatgcaa aactgaatca actgaggagg gaaggcattc gctatgccag 240
gattcagcta tatgataatg acattttattt tattccaagg aatggttggtc atcagttcaa 300
gacagtttca gctgtatgca gktttagcatg gmatattcgg ctcaaattat atcactcaga 360
ggaggacamt tctcagaata cagctactca tgaaacaggc acatcatcag attccacatc 420
atctgttctt ggacctcaca ctgacaacat gatttgtgct gtaagcaaac ctccttggat 480
tctgtttttt cagataaaact tcattctwaa tatgaattac agcagattaa acatgaacct 540
attgcatctg taagaatcaa ggaagaacct gtgaatgtta atattcctga aaagactaca 600
gcactgaata atatggatgg caagaatgtt aaagcaaaat tggatcatgt tcaatttgca 660
gaatttaaga ttgacatgga ttctaaattt gaaaatagca acaaagattt aaaggaagaa 720
ttgtgccctg gaaatctaag tctagttagt acaaggcaac acagttcagc acattcaaatt 780
caagataaaa aagacgatga cattttgtgc taaatttgca tataccatct aaaatccttt 840
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taaaggagtc tttaaaaaaa aatcattttac gttggaattt taggttttag aatagagctg 1080
acattaacat atatatatat atataaatat atatatatat tttgtaatat gagccagaat 1140
tctttttcaa caattttaag cttttccata gagcttattt atatcctttt ttttcatttt 1200
aaatgtgtca gcaactgtagt gtaaataagct ttttaaatatc ttttttagtgt gattttatact 1260
gaaatgtgag ccacttaata aaggttcata tgttcatatt aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaa 1333

<210> 1022
<211> 565
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (529)
<223> n equals a,t,g, or c

<400> 1022
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tgtgcatgtg tacataagct tgtatttttc ataaaaaagg aatcctgata catattttat 120
aacatacttt ttttcattta acatactgag gcatttataaa ttttcagttt gttttttattg 180
tagcaaacat gtagtaaggg tttgggttggc tttcagtgga taaaaggacg gtatccaaag 240
gggggtttga atttccact tctgggaaca gactcctatt aaagttccag gggactatct 300
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tcttccaaat actttgtgtg aactatcaga aatctttggg aattttttta tgtacattct 420
tgaaattctg aatgtacaaa tatggagttc catttaaaagt ttttttttta attttaagtc 480
ttgcatccat taatgtattc tcttaaaact ttatccttat atatttatna gctctgaaat 540

664

cttggggccac taggcacttt ggggg

565

<210> 1023

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 1023

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ctggcagtct gtgcaccgga gttggctcct ttcctcttta aacttggtgca agagatcgct 60
gagcgatgaa ggtagaatta tggtcctcct tgcccttgcc ttctcttttt gtgatctcaa 120
agcatcctcc ctccgccctc attccatggc cccagttccc tactcccaca gctgtctgct 180
gaaactgccca acattactca attgtttctg gggggaggaa catttttttt tgaaacaaaa 240
tagatatatg aaacagtaca cggaatttaa cacgaatatt taaggtaaaa catgaccttg 300
aagattatga aatccatctt attttggccc agaacggggg cattgggctc cttggggccat 360
aggggagctg gggaggacag ggtgaagagt tagctctaag ccctctgctt ggagatgctg 420
taaatacaga acgcaaaatc accttcgaag ttaaagacgc gaaagttctt cttttctcng 480
gcccttcttc ccttcccccc ggccatttcc ttccagtacc antng 525

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<210> 1024

<211> 908

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 1024

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agtgaacat aagtactggg ataccctatc ctaattaggg atcatttgaa agcttttccc 120
aaattgaggc cntgctgcct tctccccatc ccctgggggt ttaaagtgat ttcaaactgc 180
aacctagttt tagaaccact gttctgggta gttgggatac tgaaggcata ttgttaatta 240
ttctacttgt atgttttgct aattctaaga taagcatttt tccagaaacc aggatgtaga 300
atccagytgc catygacatc ttaacatttt aggaacaac tttaaaatga tatactatct 360
atctatctat ctgtagcaty ttaaaggtaa tgaaattaat gtggcagtag gtctttttaag 420

```

665

```

cttctgccta catccatatt gagtatagtt gttgtcttct aaaataatta attgattttt 480
ggtgagataa ccagattcat attttaagcc ttttgtaatg gccccgtggt acctggagtc 540
aaggttcaga agtaaaaagt tccttaaggt atcaataaca aaaatttgta ttaatagttc 600
agtcctaaag cagtgttgct gagattatgt ttcaccagca tttaacaagct gtatgttaaa 660
tgctgccata aagaggtctc tgaagccgta gggcacaccc aaggcagggc tgaraagtac 720
ctagtagtgt gcmccmcccr aaaacccatgg atggcagcag ccacatytc agcttaccca 780
ttcactgccm cagtytacag cttaagacmc ttaactacaa ggtaaaagaa aaggrccaag 840
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aaaaaaaaa                                     908

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<210> 1025

<211> 421

<212> DNA

<213> Homo sapiens

<400> 1025

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gggtacggtta attcccaagg taagctcttg atctagatct tggggcctat agaaatattt 60
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ggaaagtgtg tatggttaat agtttgtag gaactccctt ccaagaggca agcttttgct 180
atctctatgg aatttgaggg cagttggaca atttgcaagg atattctcac ctgttcatta 240
aggtcccttt cctccagtaa gagaatggct agggctctgtg ggataatctt aagcacctac 300
tggtgctttt ttgttggttt gcttatgcaa gtgatcattt attttttagg agtgatttgg 360
aggaagagta tgaggcaagc ttgtttttct ccagtgtaat tgatggtcac catgcatggg 420
t                                             421

```

<210> 1026

<211> 887

<212> DNA

<213> Homo sapiens

<400> 1026

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gattgcgtaa cagaactttc tgtacatcac agaaacaaca ggcaaacaat ggaggattta 60
atttctactgt ggcagtatga tcacctcacg gctacctatc ttctgcttct agccaagaag 120
gctcggggaa aaccagttcg tttaaggctt tcttcyttct cctgtggaca agccagtgtc 180
acccattca cagacatcaa gtcaaataat tggagtcttg aagatgtgac cgcaagtgat 240
aaaaattatg tggcgggatt aatagactat gattggtgtg aagatgattt atcaacaggt 300
gctgctactc cccgaacatc acagtttacc aagtactgga cagaatcaaa tgggggtggaa 360
tctaaatcat taactccagc cttatgcaga acacctgcaa ataaattaaa gaacaaagaa 420
aatgtatata ctctaagtc tgctgtaaag aatgaagagt actttatgtt tcctgagcca 480
aagactccag ttaataagaa ccagcataag agagaaatac tctactacgc aaatcggtac 540
actacaccct caaaagctag aaaccagtgc ctgaaagaaa ctccaattaa aataccagta 600
aattcaacag gaacagacaa gttaatgaca ggtgtcatta gccctgagag gcggtgcsct 660
cagtgggaatt ggatctcaac caagcacata tggaggagac tccaaaaaga aaggagacca 720
aagtgtttgg gagccttgaa agggggttgg ataaggttat cactgtgctc accaggagca 780
aaaggaaggg ttctgccaga gacgggcccc gaagactaaa gcttcactat aatgtgacta 840
caactwgrtt agtggtattc cggttcaact gtttggtatg aattaat 887

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<210> 1027

<211> 461

<212> DNA

<213> Homo sapiens

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MISSING AT THE TIME OF PUBLICATION

683

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 1053

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tcaagagaga tgagctcagt tcctaggtca tgccccagtc tgtagtgaca tgctcctgta 120
tgtaacggaa atggccatgt ctacaggagg taaaatcaca ccaacctggg aagaggaaaa 180
gccagtgagg ggcagtacag cagggggcagc cctctccact gaargcagtt gtttgccctga 240
ctccatggca tttgtgtcca ttagagtcta raagargtgt tggcaaactt tctacaaagg 300
gccaratakt aaatatTTTT ggcttttgaa rctaratggt ctctgtcata accactcmac 360
tccgccattg tagtgcaaaa gcaaccatag accatatgta tacnaatgga tatgggcctg 420
gtccaataaa aactttttatt tacaaaaagc aaggcnantg ggccca 466

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<210> 1054

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<400> 1054

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ttcggntaaa aaaaaaaaaa aggactgtgt aagggttactt aactcctctg gggcttggtcc 60
atcttatctg caaaaatggg gatccnctag cgtgtatctc gctgagcggg acagatgaac 120
tatgtaaagc atttggccca atgcctggca ctgctaagca tgcaataaat ggaagttact 180
atcataatgt gtaacacata taattatgac aattatattt ccaagatatt ctgggatctt 240
tacagtttca taattttgct ctttttacta tacaacactc cttttattga aacaaataca 300
gattttggag tcagacagac ctagtctgga tttgaattcc agctctcctt cttaccagcc 360
tggggccatg gagaatgttg tccatttccc tgagcctcag tgttcttctc tgtaaaatgt 420
ggatgatacc tgactcccag gcattttgcc aggattacat gggattccta cacagtgcaa 480
tgtctagtga taatataaat actaaaagca acttggttaa tgtataaata aatgtgattt 540
atttttgctc cttttaa 557

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<210> 1055

<211> 2872

<212> DNA

<213> Homo sapiens

<400> 1055

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catgcctgat ggagccactt tggctattgg atcttcccgg gggaaaatat atcaatatga 60

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684

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ttaaagaatg ttgaaatcac cagttaagac catcagtgtt cacaagacat ctgtgcagtg 120
tatarcattt cagtactcca ctgttctttac taagtcaagt ttaaataaag gctgttcaaa 180
taagcccaca acagtgaaca aacgaatgtt taatgtgaat gctgctagtg gaggagtcca 240
gaattccgga attgtcagag aagcacctgc caggtccatt gccacagttc taccacaacc 300
tatgacatca gctatgggga aaggaacagt tgctgttcaa gaaaaagcag gtttgcctcg 360
aagcataaac acagacactt tatctaagga aacagacagt ggaaaaaatc aggatttctc 420
cagctttgat gatactggga aaagtagttt argtgacatg ttctcaccta tcagagatga 480
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attgcattct agtcctctta atgtttttat gggatctcca gggaaagagg aaaatgaaaa 660
ccgtgatcya acagctgagt ctaagaaaat atatatggga aaacaggaat ctaaagactc 720
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gccttctatt tttatggaga aagtaatttt aaaaatggcaa ttggtgtttc taagccattg 1680
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tgtggtttat agcatacatt tgtactgaag catataggga tgttaatgtg atcttttctc 2580
gacagattat gaaagcatta tgacttgtaa caagtttcct tgtatatcac taacaggttt 2640
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cctgttgctt ttttaaaaaa ataaatacac ataatgtata ttaaaagagg tgggatgaaa 2760
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aagtataaaa aataaaatgt tatatgcaaa aaataaaaaa aaaaaaaaaa aa 2872

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<210> 1056

<211> 552

<212> DNA

685

<213> Homo sapiens

<400> 1056

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gtagactaga gaaggcattt ggagatcggt ttagtaaatt atcttaacca atctaaaaat 60
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ttaggggaac gtggcaccga tctcatcttc accgtcgatc agtggttctc tgacttggtc 180
cagtggccgc acaccagcta gtgaagaaaa ccacagactc caactgcact gtgtacgstc 240
tggtgtcctc atttccaaaa aaaaaaaaaa aaaatctcca agatagagtt taagaaatct 300
catttgagtt gccctgctaa tatttgcagc tcgctgggtg gtgccgtgga ggccagtact 360
caccgtcagg ctgtggcagg tacagtgaag ggaaaaactc catgagagaa cggtggaaag 420
ttcacctgag agtgaaacgc atgccagtta gagtggctga aaaatagcat ggacaacacc 480
agctagtga gaaaaccaca gactccaact gcactgtgta cgctctgggtg tcctcatttc 540
caaaaaaaaa aa 552

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<210> 1057

<211> 871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<400> 1057

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aaaaataagt caagagttcg aatcaatgaa gcaacagcaa gcatctgatg ttcataaact 300
gcagcagaag ctcagaactg cttttactga aaaagatgcc cttctcgaaa ctgtgaatcg 360
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taccataaag aaccttcaag aaaagaatgg agtatactta cttagtctca gtcaaagaga 480
taccatgtta aaagaattag aaggaaagat aaattctctt actgaggaaa aagatgattt 540
tataaataaa ctgaaaaatt cccatgaaga aatggataat ttccataaga aatgtgaaag 600
ggaagaaaga ttgattcttg aacttgggaa gaaagtagag caaacaatcc agtacaacag 660
tgaactagaa caaaaggtaa atgaattaac aggaggacta gaggagactt taaaagaaaa 720
ggatcaaaat gacaaaaaac tagaaaaact tatnggttca aatgaaagtt ctctctgaag 780
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agaaaaaaaa ccggttgagt agggatttgg a 871

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<210> 1058

<211> 544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

686

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (434)
 <223> n equals a,t,g, or c

<400> 1058
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 aggcgtgaat cagtgcacct ggcctgatag tcacctttga agagttgtga tataaccattt 120
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 caattaggct cttggctacc tgccagaaaa accagatgtt ttctactga agcaatttca 540
 aaag 544

<210> 1059
 <211> 597
 <212> DNA
 <213> Homo sapiens

<400> 1059
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 gcatcaccaa gatgacacca agtacagaac caaaagtttc aaaggtgaca gaacctttct 180
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 aataacatct ctattcttac agcaatttgg ccagattat ctaacagaca tacctgcagc 480
 tttggctctt tgggtattgcc aaacattgac aaaagtgaca atactgttgg tccttgtgaa 540
 tggtaaacca atccaaataa tatcagatca tgaatgatgt gcagctaatt tatttgc 597

<210> 1060
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

687

<222> (96)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (334)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (344)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (380)
 <223> n equals a,t,g, or c

<400> 1060
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 gaggcattcc cctctggttg tacagcgaca gctggngaga gaaggcagca gccctgaagg 120
 cagtaccagg aggacgatcg aggggcagtc tccggagccg gtgttcggag atgctgatgt 180
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 tggga 425

<210> 1061
 <211> 593
 <212> DNA
 <213> Homo sapiens

<400> 1061
 ggttctagat cgcgagcggc cgtccttttt tttttttttt tcagttcaag cgcaattttg 60
 ccaccaattt gattacgaaa aatcttttcgg gcttccaggg agctttggag cctggaaatt 120
 gcagatgagg gatgggggcc tgcactgttt cgcggctggg gagagggagc tcatccgaag 180
 tcttccgaca gaggtgggcg tcatgcccga cgctgagcgg agtgggtctc ctcgagccca 240
 ggctccctgc gggcgctgtc ctcagcgagc ctecccgccct ccgcgcccgg ggtcgtacct 300
 gcttcacgat ctccctaccgc ggcggggccgc gtacctcctg gatggcctct tagacgttct 360
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 tgaagctgcc gctgcttccg aggttgccgg cgggaggcga gacgacggcg cgcgtcaggt 480
 cgtccaggga ctgcgcgggc cgcacgggcg ccgtgggccc caggtacagg caggcgggca 540
 ggccggtgta ctcgaagggg tgctccacca gtacgtacac gtccccctcc aca 593

<210> 1062
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 1062

688

```

ggcagagctt tattaaagta cagtattata agaaatcaca ggcgtgagca cctgcgtcca 60
gccaaaaagc tttttttgaa tgtgatctgt gtgaaaataa ttccctatgg tatgacatat 120
gataggcagg gatgatgtat ctcakaaatc atactcctgt cttgatatcc catcaaatat 180
caatgtttac atttagcggt tggatgtctg gcaggacatt aaaaaattgg cagagctgtc 240
ccacacatgc agaacatcta tagcgttctt gcctcctcaa aggtaatctt catgtgacaa 300
caacaacaac aaaaaaaaaa aaaaaaaaaa tt 332

```

<210> 1063

<211> 2340

<212> DNA

<213> Homo sapiens

<400> 1063

```

aggcgtgctg gagacgcgta gaggagcgcg cccccgggcc gmtgccgmcc ctggcccgtg 60
ccgtcacccc gcttctccgc gcctcgggcg gtaccacagc agtccccagc gccgcgtac 120
cgcgctgacc ggccctccag acgcctcccg gtacccgcca cccagccccg gccgctcgcc 180
cgcagccccg cggccgcaca cgtccccgga gccgggctta gggcgggcgg cagggcggtc 240
cggcgcgctc aggcgtgggt ctgtagcgtc cccatggccg cggccggctg gcgggacggc 300
tccggccagg agaagtaccg gtcgtgggtg gtcggcgggg gcggcgtggg caagtcggcg 360
ctcaccatcc agttcatcca gtctatctt gtaacggatt atgatccaac cattgaagat 420
tcttacacaa agcagtggtg gatagatgac agagcagccc ggctagatat tttggataca 480
gcaggacaag aagagtttgg agccatgaga gaacagtata tgaggactgg cgaaggcttc 540
ctgttggtct tttcagtcac agatagaggc agttttgaag aaatctataa gtttcaaaga 600
cagattctca gagtaaagga tcgtgatgag tcccaatga ttttaattgg taataaagca 660
gatctggatc atcaaagaca ggtaacacag gaagaaggac aacagttagc acggcagctt 720
aaggtaacat acatggaggc atcagcaaag attaggatga atgtagatca agctttccat 780
gaacttgctc gggttatcag gaaatttcaa gagcaggaat gtcctcctc accagaacca 840
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ctgttgattt tatggattaa aaactgctta taaaaccctg tgttactact cctactcttg 1500
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tttgtaagca gatatgcttt catagcatac cttgtgtata tgtaaagata agtatttaat 1860
tctcactgtt cacttttaac tgacaaagaa aaacaagtgg aaactacaga aactgtggta 1920
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tcaagaaacc ttcccaatag agtacaacag gatgagactc tgaaatcact ttcagtattc 2040
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ataactgtgg atggcatctg attttgtttt taattctgtg gattgtgttt aagcaattca 2160
atagtatgtt cctgattttg agatgctaag tggatattgca cagttgtcac tttatcaagt 2220
gtgtacaaca gtcccatgaa gtttatagag catacccttg tatagcttca ggtgctagaa 2280

```

689

ttaaaattga tctgttatca caaaaaaaaaa aaaaaaaaaa aaaggctctt taattaggcg 2340

<210> 1064

<211> 1647

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1629)

<223> n equals a,t,g, or c

<400> 1064

```

gcgggcgtg aacgggacgt accaccacca ccaccaccac caccaccacc atccgagccc 60
ctactcgccc tacgtggggg cgccactgac gcctgcctgg cccgccggac ccttcgagac 120
cccgggtgctg cacagcctgc agagccgcgc cggagccccg ctcccgggtgc cccgggggtcc 180
cagtgcagac ctgctggagg acctgtccga gagccgcgag tgcgtgaact gcgggtccat 240
ccagacgccg ctgtggcgcg gnacggcacc ggccactacc tgtgcaacgc ctgcgggctc 300
tacagcaaga tgaacggcct cagccggccc ctcatcaagc cgcagaagcg cgtgccttca 360
tcacggcggc ttggattgtc ctgtgccaac tgtcacacca caactaccac cttatggcgc 420
agaaacgccg aggggtgaacc cgtgtgcaat gcttgtggac tctacatgaa actccatggg 480
gtgcccagac cacttgctat gaaaaaagag ggaattcaaa ccaggaaacg aaaacctaag 540
aacataaata aatcaaagac ttgctctggt aatagcaata attccattcc catgactcca 600
acttccacct cttctaactc agatgattgc agcaaaaata cttccccac aacacaacct 660
acagcctcag gggcggggtgc cccgggtgatg actggtgcgg gagagagcac caatcccag 720
aacagcgagc tcaagtattc gggcgaagat gggctctaca taggcgtcag tctgcctcgc 780
cgggccgaag tcacgtcctc cgtgcgaccg gattcctggt gcgccttggc cctggcctga 840
gcccacgccg ccaggaggca gggagggtc cgcgcggggc ctcactccac tcgtgtctgc 900
ttttgtgcag crgtccagac agtggcgact gcgctgacag aacgtgattc tcgtgccttt 960
atthttgaaag agatgttttt cccaagaggc ttgctgaaag agtgagagaa gatggaaggg 1020
aagggccagt gcaactgggc gcttggggcca ctccagccag cccgcctccg gggcggaccc 1080
tgctccactt ccagaagcca ggactaggac ctgggccttg cctgctatgg aatattgaga 1140
gagatttttt aaaaaagatt ttgcattttg tccaaaatca tgtgcttctt ctgatcaatt 1200
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agaagatcac ttgaggccat ttggtacaca tctctggagg ctgagtcggg tcatgagggtc 1320
tcttatcaaa aatattactc agtttgcaag actgcattgt aactttaaca tacactgtga 1380
ctgacgtttc tcaaagttca tattgtgtgg ctgatctgaa gtcagtcgga atttgtaaac 1440
agggtagcaa acaagatatt tttcttccat gtatacaata atttttttta aaagtgcaat 1500
ttgcgttgca gcaatcagtg ttaaatcatt tgcataagat ttaacagcat tttttataat 1560
gaatgtaaac attttaactt aaggtaactt aaataattta aaagaaaang ttaacttaga 1620
cattcttgng cttctttttac aactaca

```

1647

690

<210> 1065

<211> 252

<212> DNA

<213> Homo sapiens

<400> 1065

```
gaggaattgg aagcaagggg tctgagatgg ttgccatggg tatttccttc tagattgtgt 60
tactgctga gaccattttc ccactgtggg catgttttcc ttgagtcaat tttccaggta 120
ctctatatcc agcactctcc tccttccttt tctttaattc catttttagcc acacacaggg 180
gaatgggaaa gggcctgatt aaatcaacta tttttttttt tttaaaattt taatcttttg 240
ggggcccagg aa 252
```

<210> 1066

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<400> 1066

```
tccccgcgc sttgcccgat tcattaatcc agytgccacg acaggtttcc cgactgaaac 60
cgccagtgna gcscaacgca attaatgtga gttagctcac tcattaggca ccccaggctt 120
tacactttat gcttccggct cgtatgttgt gtgaaattgt gascggatac caatttcaca 180
caggaamcag ctatgaccat gattacgcca agctctaata cgactcacta taggaaagct 240
ggtagcgctg cagggtaccgg tccggaattc ccgggtcgac ccacgcgtcc gcaaaaatttc 300
ttcagtttat tatctgtaaa ttgtacagtt ttctttttga aagttttaat attgtcttcc 360
tttttaataa cttattttat acatattgtg cagatgtaaa tcttgtaatt aatgggtcaaa 420
ctgtataaag ggattggtag tcaaaacatg tacaaagaaa tacctgtaaa actgttttgt 480
ctcatgtttt attggacca aagttgtggtt tgtatggagt gtagtagtag tgtgtacagg 540
tagaaaactt ttaaatacag catgcagggtg tttcagttag cttgttttca tcaccataac 600
tgcaaaagatg tggcttagtt gtattgcatg cttcctataa ttttaactctc cataattgat 660
gcctgcagta gtgtaaggca ttccatacta gtctcctcta gtagacctgt gacttactgt 720
gttggacata ttatttagac ttagtcatac aaagaaactt agctcttttt tcatctcaca 780
gtaaagccta tttccccagg aaaaaataa atgcctttga atgaaaattc tgaaattgta 840
aatgtctatt ttaatatcca cctatgaaag aatctgtgaa tatatgtaaa tacgtttaat 900
aaattttatt ggtcatgtta aatcattgta aaactttttt acattgctta atgttttaag 960
cttaatagcc tttgcacttt taaaataaaa accaagtatg caaatcaaag atatttggtta 1020
gtcaaaaataa gtaaaagaaa tataggaata ttccagtcaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaagggcg gccgc 1095
```

<210> 1067

<211> 661

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

691

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 1067

```

cagccctaca ggcaacttga acggagagcg ctttgatcac tcaccagccc gggaaggcaa 60
gccccagtca ggcggaaggt agctggctgc ggggcggggc gactggcggg cggcggggagg 120
cgccaaccgg cacagacgac tcccagctgg ccgagggcgg gaagggggca ggcaggggaag 180
cggccccgcc ttctgcctgc cccttcgccc taytctgtca cctccgytgg aaggagtgga 240
acccakactt gctggtctga tccatgcaca aggcgggggt gctaggcctc tgtgcccggg 300
cttggaattc ggtgcggatg gccagctccg ggatgaccgc ccgggaccgc ctgcgaaata 360
aggtggccct ggtaacggcc tccaccgacg ggatcggttt cgccatcgcc cggcggtttg 420
cccaggacgg ggcccatgtg gtcgtcagca gccggaagca gcagaatgtg gaccaggcgg 480
tggccacgct gcagggggag gggctgagcg tgacgggcac gtgtgccatg tggggaaggc 540
ggaggaccgg gagcggctgg tggccacggt garcttgca ggaatgggc acagagccar 600
gaagtggaaa aggagccanc tgamctkctt cctgctttcc taagacagca acacatnnga 660
a 661

```

<210> 1068

<211> 164

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<400> 1068

```

attccttata catgttaact aactctaagg ggaaagagat agatcataaa ttacatgtta 60
acgttgaggg gaaattgata gatcataaat taaaatataa tttaatatgt tatatatattc 120
tattgattta tatacctatg aaatannttt tatattgaaa ggta 164

```

<210> 1069

<211> 1004

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

692

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 1069

```

acattaacgg gaagcttcct atagggattg cgggtangcn tcccaggtag cgggtccggaa 60
ttcccggggtc gacccacgcg tccgagttat ttgagaattt tgggtgaaaaa tatttagctg 120
agggcagtat agaacttata aaccaatata ttgatatttt taaaacattt ttacatataa 180
gtaaactgcc atctttgagc ataactacat ttaaaaataa agctgcatat ttttaaataa 240
agtgtttaac aagaatttat attttttatt ttttaaaatt aaaaatratt tatatttcct 300
ctgttgcatg aggattctca tctgtgctta taatgggttag agattttatt tgtgtggaat 360
gaartgaggc ttgtagtcat ggttctagtg tttcagtttg ccaagtctgt ttactgcagt 420
gaaattcatc aaatgtttca gtgtgstytc ctgtagycta tcatttactg gctatttttt 480
tatgtacacc tttaggattt tctgcctact ctatccagtt gtccaaatga taccctacat 540
tttacaatag ccctttcagt ttctattttc tttttccatt aaattgccct catgtccctaa 600
tgtgcagttt gtaagtgtgt gtgtgtgtgt ctgtgtgtgt gtgaatttga ttttcaagag 660
tgctagactt ccaatttgag agattaaata atttaattca ggcaaacatt tttcattgga 720
atttcacagt tcattgtaat gaaaatgtta atcctggatg acctttgaca tacagtaatg 780
aatcttgatg attaatgaat ttgttagtag catcttgatg tgtgttttaa tgagtatttt 840
tcaaagttgt gcattaaacc aaagttggca tactggaagt gtttatatca agttccattt 900
ggctactgat ggacaaaaaa tagaaatgcc ttcctatgga gagtattttt cctttaaaaa 960
attaaaaagg ttaattattt tgactaaaaa aaaaaaaaaa aaaa 1004

```

<210> 1070

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<400> 1070

```

accgtccgga ttcccggggtc gacccacgcg tccgtgaggt tacagattat gccattgcca 60
ggcgcatagt agatttgcag tcaagaattg aggaatcaat tgatcgtgtc tattccctcg 120
atgatatcag aagatatctt ctctttgcaa gacagtttaa acccaagatt tccaaagagt 180
cagaggactt cattgtggag caatataaac atctccgcca gagagatggt tctggagtga 240
ccaagtcttc atggaggatt acagtgcgac agcttgagag catgattcgt ctctctgaag 300
ctatggctcg gatgcactgc tgtgatgagg tccaacctaa acatgtgaag gaagctttcc 360
ggttactgaa taaatcaatc atccgtgtgg aaacacctga tgtcaatcta gatcaagagg 420
aagagatcca gatggaggta gatgaggggt ctggtggcat caatgggtcat gctgacagcc 480
ctgctcctgt gaacgggatc aatggctaca atgaagacat aaatcaagag tctgctccca 540
aagcctcctt aaggctgggc ttctctgagt actgccgaat ctctaacctt attgtgcttc 600
acctcagaaa ggtggaagaa gaagaggacg agtcagcatt aaagaggagc gagcttgcta 660
actggtactt gaaggaaatc gaatcagaga tagactctga agaagaactt ataaataaaa 720
aaagaatcat agagaaagtt attcatcgac tcacacacta tgatcatgtt ctaattgagc 780
tcacccaggc tggattgaaa ggctccacag agggaagtga gagctatgaa gaagatccct 840
acttggtagt taaccctaac tacttgctcg aagattgaga tagtgaaagt aactgaccag 900

```

693

```

agctgaggaa ctgtggcaca gcacctcggtg gcctggagcc tggctggagc tctgctaggg 960
acagaagtgt ttctggaagt gatgcttcca ggatttggtt tcagaaacaa gaattgagtt 1020
gatggctcta tgtgtcacat tcatcacagg ttccatacca acacaggctt cagcacttcc 1080
tttgggtgtg ttctgtgccc agtgaagttg gaaccaaata atgtgtagtc tctataacca 1140
atacctttgt ttccatgtgt aagaaaaggc ccattacttt taaggatatg gctgtcctat 1200
tgagcaaata actttttttt aattgccagc tactgctttt attcatcaaa ataaaaatac 1260
ttgttctgaa aaaaaaaaaa aaaaaaana aaamaaaaa aaaaaa 1306

```

<210> 1071
 <211> 150
 <212> DNA
 <213> Homo sapiens

```

<400> 1071
gacttggttct agatcgcgag cggccgccct tttaactgtt ttaggtgtgt gtgtccagag 60
tgagcaagga ttatgttttt ggattgtcaa agaggatgct tagtcttaaa ataaaaataa 120
atttaaaaat catcttataa aaaaaaaaaa 150

```

<210> 1072
 <211> 386
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (380)
 <223> n equals a,t,g, or c

```

<400> 1072
acgcctgcag gnnaccgggc cggnaattcc cgggtcgagg ggccactctc ctgtctttac 60
tccttttccc ttctctattc ttccaccaga agccctcatt tgaccagtga actcctaggc 120
cctcttgacc cgcacattag ctgggcgatt tccttggttc gctaattcct aattctgctt 180
aaaatgtatt tggatttctg tttttgaaca cttatgatgc caggcactgt aatgcttgaa 240
acccgatctt tccctagaga atgtaacata cgtttttatt catttaatca cttcattatg 300
ccgggggttaa ttatgtttat ttataaattg gtaataaagg ccacatttat ttttgtaact 360
gtttaaaraa maaaaaaaaa aaaaaa 386

```

694

<210> 1073
 <211> 623
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (23)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (27)
 <223> n equals a,t,g, or c

<400> 1073
 nntgagaaaa acccttgatg tgntganaac catcatgggg accaggatag aaggcttctt 60
 ccactcaaaa gcttttctcc ctggagggtg ggcactgctg ggccatgcac ttcaaagcag 120
 tgttcctcag caggaaagcg gaggtcacca cttaccggcc tctccacct tctcggttc 180
 tcttttctcc atgaaccag gtcgtccagc aggtacttcc aagttcccag gtctgtctgc 240
 ctaagagcct tttagaggaga ccgtcctgga gccccatcag tgcccagatc ctgggggtacc 300
 gaccattgct gtctagcagt gggggatcct gtggtgggaa tggggtgggc ttctcatcca 360
 tgttgcttct gggaagagag gggtgccttt ctgggctagg gaggtggctg gagcttctgc 420
 cctgaccctc cgctagaaac cagttatata cattgccaca gcaatactgt gtaacaaatc 480
 cgccaacact cggtggcctg caacagtcag cactgatcta gggcaggagt cagcagtctg 540
 ggcagggtga ttcttctggt ctaggctgkg cttgtttgtt tagggccatg gggtgttaag 600
 tcccaggagg atgctccatg gtg 623

<210> 1074
 <211> 629
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (450)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

695

<222> (609)

<223> n equals a,t,g, or c

<400> 1074

```

cacttttatt aatttgcattg tccttttaatt atttatttat tcaaatacta ccgtatggcc 60
caccataatt acccccatatc tccttacact attcctcatc acccaactaa aaatattaaa 120
cacaaactac cacctacctc cctcaccaaa gcccataaaa ataaaaaatt ataacaaacc 180
ctgagaacca aaatgaacga aaatctgttc gcttcattca ttgccccac aatcctaggc 240
ctacccgccg cagtactgat cattctatct cccctcttat tgatccccac ctccaaatat 300
ctcatcaaca accgactaat caccacccaa caatgactaa tcaaactaac ctcaaaacaa 360
atgataacca tacacaacac taaaggacga actgatctct tatactagta tccttaatca 420
tttttatttg cacactaac ctctctggan tcctgcctca ctcatctaca ccaaccaccc 480
aactatctat waacctarcc wtgggcatcc ccttatgarc sggggcagtg awtatagstt 540
tcgctcttaa aattaaaaat gccctagccc cttcttwaca aaagggatat tgggttttgg 600
aatacactnt tttctttgat tttttttaa 629

```

<210> 1075

<211> 556

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 1075

```

cggtgccccaa cccggtcccc gccccagac acgcccggct ctcggggcac cacagccatg 60
tgctcgtttag cgtcaggcgc taccggcggc cggggcgctg tggagaatga ggaggacctg 120
ccagaactgt cggacagcgg ggacgaggcc gcctgggagg atgaggacga tgcagatctc 180
ccccacggca agcagcagac cccctgcctg ttctgtaaca ggttattcac atctgctgaa 240
gaaacatttt cacactgtaa gtctgagcat cagtttaata ttgacagcat gggtcataaa 300
catggacttg aatttttatgg atacattaag ctaataantt ttattagact taagaatcct 360
acagttgagt acatgaattc catatacaac ccagtgcctt gggagaaaaga agagtatttg 420
aagccagtat tagaagatga ctttttactt caatttgatg tagaagatct ttatgaaccg 480
gtgtcagtac ctttctcata cccaatgga ctcagtgaat atacatctgt tgttgaaaaa 540
ttgaaacata tgggaag 556

```

<210> 1076

<211> 420

<212> DNA

<213> Homo sapiens

<400> 1076

```

aagccggaag ttgggggatg acagcagcat catgatgctg gctgtggagt gagcatgggg 60
ctggcgtcga ggccactctg cctcccatgg gtgggcggcc ttagctccyc ctctgcaaaa 120
tagggagctg ttgcaggaca ttccagagct actataagga ctgaaggagg ccccggggaa 180
aagagctctt gatataattaa ggcaactgctt agtagtgact atgcttactt tgcgagcagg 240
gaaaccgagg cctgggtagg acagaggggg gcacatgtgt ttactgccct ctccgcccc 300
gactttgggt ccatcagcct ccacccctgt gcgcccgtca agaatttggc ttccacgttc 360
tgctccccgg accctcccag cctaacctgt ggatcctgcc acacaaagat gggcttacct 420

```

696

<210> 1077

<211> 736

<212> DNA

<213> Homo sapiens

<400> 1077

```
gattcagtgt ctatttcctg aggaacccaa cttataacac gtagaataaa ctggccaaag 60
ttcttaattt tccaatttgt tgcaccagcc ccacgtgacc accaaaagct tttctgggtt 120
tccctttccc tcaggagaga cctcttcac agaccaagct tgatccttat tagtccatgt 180
ccagaatcag taaatgtccc tagaaaataa aatggccact tacctcagga ggactcctcc 240
ctctctggaa ttcccattca cctagtcctt attgctttca tagctctcac atatctttaa 300
atatgatctt tataattttt ccatcttttt ctagttgttg caggcaaagt tttaggctgc 360
catgacctac tatatcctat ttagaagtgg aagtccttag agagattttc aaaattacag 420
atgtgtggat attagctttt ctcttaattt aattgaattg tggtagagaga aggtgttctg 480
tattattcaa atagcttaaa atttgctgaa atgggtttat aatcaaatat atgggtcaaat 540
ttaatagttc atgtactctt ataaatatgt attctcccat tggtggatgc aatgcccttt 600
gtatgttcat gggatcaagt ttgttgactg ttttgtgtaa atctatatgc aaaatcttga 660
tttttgtcta cttgatctgc ttctgaaaga ggaacaataa aacttccac tgctacggtg 720
aaaaaaaaa aaaaaa 736
```

<210> 1078

<211> 899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 1078

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agggntggaa cgccgcagg taccgggtccg gaattcccgg gtcgaccac gcgtccgccc 60
acgcgttcgc tggtcggcta tccattcatt ctccatacag caactagagt cattctttta 120
aaattgcgga cctgatcctt ccatctccca gctgaacgct tttcatttgc ttctgttct 180
catgagtatg ccaaaatgta ttctgggcta ggaggccctg aggaatttgg tccttccctc 240
ctccccctc gttttctgtg ctctgccctc actggcttgc ctttcttttc cttaaataca 300
tcattgtctc tcctatttta gatccttttc ccgaaggta tggaaacatt atttctgtaa 360
gcttattctt ctatatagat gggaagttaa taaatcagat aagggttctaa gggcatgtgg 420
acaatttacg ttatcatagt attgttcata acgtccatca ttattctgta gactgtaagg 480
gcttacttag ctctgtgaag aattatcctt caaaaagcat ttttaaggta ttagtattgc 540
taatctataa actttgtgca agaagtccta aagtcaatag caacatttat ttaaagtaca 600
gtttgtcata cttaataaac ctctgggtata ttttcttta ttatgcttgt taââââacaca 660
gtataaatgg gagaaatcat taaagatcat taactccaag gctgctggat gtaggaccc 720
ttaagcatat ttaaaagatt gattgtaatc aagaataact tgtatcagat tgccttccag 780
tgattcacat ttattagttc aaccagttac atacctgtag caagagacca gtttatttgg 840
caataaaatt ggggaaggaa tcaagactta aatgaggaaa aaaaaaaaaa aaaaaaaaaa 899
```

<210> 1079

<211> 2215

<212> DNA

697

<213> Homo sapiens

<400> 1079

```
tataaaagaa caaactggat gtggaaaggc tacttgtcca agggcacact gctgctagtg 60
atggagtgcca aagttcacat ctgtctgcct ctggaacact catctaacta aagatgaaaa 120
caccgttctt catctttaac ctggcagaaa ctgctcacat gccttcaaaa gtgaaagctc 180
aactctacgc tcaagcatat gacctttata aggagattgt ctatttacia aaggagcacc 240
cagtgaattg gcacaagaac tatgccatcg cctgtgagcg gatgctgcgt cttcaggcaa 300
gagatgcaga tcctgaagtg ctgttatcgg aaaccatcag acatttccgt ctgtactctc 360
agaaagcacc gaatgaccca cagcaagctg atatttttagg tgctctaaag cacctaagaa 420
aagaactgca aagtctgaga aataggaaaa atgtctgaga cagcaaaaata tgaaaaacct 480
gctcatcggt cagcttccaa aattctgaag tctggaagtt tttccttcaa agaaaagaaa 540
ctgcataaaa aattttaaacc taagtcattc cccagatata agtatcatgg tccagcagta 600
ctgttttaatt ggggtattcag tgactaaggt ctgctattta tgcaaaattc tgtttatccc 660
gtgtttacca attaccattt cagtgcaga cttttgaaaa gtcttctgac ttccagtctt 720
tcaccagatg actgcactgg attagattct agaagagaat gaaccatttt catataacta 780
aatattgggtc atgaactgtg taagggccat gcttattggg atcagtttta aagttaaatt 840
cttttgatat taataccaga ccaaagacat tttctgtttc ctggaaaaaa aaaatgaatc 900
atgttaggct ttaggtgaga gtacattttt tacaagtag ctatagttgt tacatagtct 960
tacacttcaa gctaaacacc aaatgggtga tattttgaaa aaagtttgtg ttttactgtc 1020
ttagatcggt cttggaaatc actaaaaaaa aaaaaagtta atttgatgtt tgcttatttc 1080
agttgcasaa actggcgagt aaaaaagatt ttgcatttac ttaattaatt ttatatttat 1140
gttttatttc tatttggtact cagagatcta gacccaattg tatagctcct agactccaag 1200
cactatatag gccctgtat agaaatgctc actaatgaag agggaggggt agaagcttgt 1260
ctgcattcaa agatcactgg tgagtcattc agcaagaaaa ggccccttac caggaatagt 1320
cacagttccg tggcattgta ctagcaaaag ggtctgatca aaggtctcct gtggagcttg 1380
catggttccc tttcatacta cgaccataat taaaaccact aattctcttt taaaatgctg 1440
caggatgcca tgtaggcac tgcttgaggt gtcctttgtg atgtcataag ctgttaagga 1500
ccagtgccga gggcttttga gtgaaatgcc agtcatgaag gtgcttcaag acaagggtgc 1560
ctctaaaagc ttgacagggc cttgactgca caattcgagc tgaatttgcc ccttgctcagc 1620
tgccagtaaa taaatctcaa agggggaaaa gctgaagttt cattacctga tccatggggc 1680
tttggttggt ttggcatcac acaggggaag ctcttgcccc tccattctct ggatttgaag 1740
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caatagttgt aacagttcag ctgttaggaa gacaaataaa tggaggagct cattaatccg 1860
cttttggtc tcagtgcctt ttgccccttt atcacagcct tattaggctc ctactcatct 1920
tgaaccagaa aaaaatgaat tgaagtgtgt gagtactaat tggcaaagac ttttaatcat 1980
gggccaagaa ctttactga cttgaaagta acttctccac aggggaaggac caaaaacctg 2040
gtttacctta aaacaaaaac ctgttgaggt tcagcgtggt gtaaaaatgt aaggaagcat 2100
tgataaattg tctaagttta tccatttgaa agaaattgtg taagattatg atattctctt 2160
ttctttaaaa aaaaaagtac aataaaattc aaacattcct taggaaaaaa aaaaa 2215
```

<210> 1080

<211> 599

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

698

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<400> 1080

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acaaaagctg gagctccacc gcggtgncgn ccgctctaga actagtggat cccccgggct 60
gcaggaattc ggcacgagga gcctgcagga cacagtcaga agaaaggaaa agccattaac 120
attgggcagt tggtagatgt gaaggtttta gagaagacca aagatgggct ggaggtggct 180
gtcctgcccc acaacatccg tgctttcctc cccacatctc atctgtcggg ccacgttgcc 240
aacggcccat tgttacatca ttggctccag gcaggtgaca tccttcaccg agtcctgtgt 300
ctgagccaga gcgaggggcg tgttcttctt tgcaggaagc cagccttggt ctccacagta 360
gaaggtggcc aggntcccaa gaactttctc gaaatccatc ctggaatgct gctcattggc 420
tttgtgaaga gcatcaagga ctatggcgtg ttcattccag tcccctcagg tcttagcgga 480
ctggcccaaa aagctatcat gagtgacaaa tttgtgacct ccacaagtga ccactttgtt 540
gagggccaga cagtagcggc aaaggtgacc aatgtggatg aggagaagca gcggatgct 599

```

<210> 1081

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<400> 1081

```

ggaaatttga attgaatctg aacaggaaat gagtgcagtt gcttgccact taagaaatga 60
aattaacott ttccgaatat cttttgaaat ctgcgttttg atgatgctga agctttggat 120
tatacatattg cttatttcga taagggtgcac ctaagtctct tcatctcacc agtattcttt 180
tgctatcaaa ggcagttgat cagttttgtt cctcaatatt ttttttgcaa atatctaccg 240
aagttttttc aaattttatg taaaatgcaa gtcattgtag agatgccagt ctatgccttt 300
atgcttgcca gtctcaatta agacttgatt gagctgcagt actttaaaaa ggattagaag 360
agctattgaa tgacttaatt tattagaagt ttttaagtga cagcatttct aattattcaa 420
gtgcatttat ttttcatgaa aaaaggtaga atgatttggt ctgacataaa gtaaatagtg 480
ttgatgcatt agaaattgtg tgtcttgatt atgatttctg tactttttgc attagaagta 540
taatggactt gtatttttaa atagttgaaa ctagcactgt gatcatatta aataatgcat 600
tycycagttt gggacctnca gatagggntt ccattgttga aa 642

```

<210> 1082

699

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1082

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gtgttctgag taacagtcag tgtataaaag gggattgcag aaaaaaatga gggcttgctt 60
tactcaacag aaaatatggc ccttcctgaa tgacactagg agagtcattt tatctcatatc 120
attcccttca tttcgttggt ggacatttgt tgaaccggc actcaatggg caaacctgtc 180
gtgcctcca gttgctgaca gtcctgcagg aagatggaca agaggcccag tgctgacagt 240
cacacgactc tcactacttg aatgagggga ctgtgggtgc aactagaaaa tatgttgatt 300
cttagccatt cccaccttgc ctctccgttc agaaccagg ctgagagctg tttgtttccc 360
tgcctggaaa tgatgtttta ggcaggttcc ttaatttctc aggtctgtct cagataataa 420
aaagctcttt gtatgagcct cagaactgtc tcttcagtga atgaaattac cagtcattat 480
acgaagggac tttaaaaaat ttgtggaaat actgaagtaa aagatgataa aaaaataaaa 540
amwttatyt c ttggctggga aaaaaaaaaa 570
```

<210> 1083

<211> 675

<212> DNA

<213> Homo sapiens

<400> 1083

```
cccttccagt catgaaactt catttgtttt atccatatcc ctgaggactg tgtagacttt 60
atgtcagttc tgtttagact ttatgycagt ttttgtcatt atttgaaaat ctattctgac 120
aactttttaa ttcctttgat cttataagtt aaagctgtaa caactgaaat tgcatggatc 180
aagtaagcat agttttatcc agggagaaaa ataaaaggaa gccatagaat tgctctggtc 240
aaaaccaagc acaccatagc cttaactgaa tatttaggaa atctgcctaa tctgcttata 300
tttgggtgtt gttttttgac tgttgggctt tgggaagatg ttatttatga ccaatatctg 360
ccagtaacgc tgtttatctc acttgctttg aaagccaatg ggggaaaaaa atccatgaaa 420
aaaaaaagat tgataaagta gatgattttg tttgtatccc taccatctc ctggcagccc 480
tactgagtga aattgggata catttggtcgc tcagaaatta taccgagtct actgggtata 540
acatgtctca cttggaaagc tagtactttt aaatgggtgc caaagggtcaa ctgtaatgag 600
ataattatcc ctgcctgtgt ccatgtcaga ctttgagctg atcctgaata ataaagcctt 660
ttaccttaaa aaaaaa 675
```

<210> 1084

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

700

<221> misc feature
 <222> (620)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (626)
 <223> n equals a,t,g, or c

<400> 1084
 gccccggtgg ccgactatct gacctcacag ttctatgccc tcaactacag cctccggcag 60
 cgcatggaca tcctggatgt aagtgcctcc tgggcctcag tccccctggt ctggcccaag 120
 ctgccctaag gtggggctgc caaaacctgg gtctccttgt tgctgggccc caagggtcgc 180
 tgcaggcctg tccactgcct tcgtgagtgt gtgacccggc aggactcagc agtgggggag 240
 tcagggtctc cggggcagag agttttgttt gtttaaaata acagctttac tgatataatt 300
 cacacgccat aaaattcacc gcttttaggtt aaaatgtgtg ctgcgaggt gaggaatat 360
 tatttagcaa wraaaaaaaa aaagggcggc cgctctagag gatccaagct tacgtacgcg 420
 tgcattgcac gtcattagctc ttctatagtg tcacctaaat tcaattcact ggccgtcgtt 480
 ttacaacgtc gtgactggga aaacctggc gttaccaaac ttaatcgctt tgcancacat 540
 ccccttttcg ccagctggcg taatagcgaa gagggccgna ccgatcgccc ttcccacag 600
 ttgcgcaagc ctgaatggcn aatggnac 628

<210> 1085
 <211> 1356
 <212> DNA
 <213> Homo sapiens

<400> 1085
 tcgacccacg cgtccggttt tttatgcayt wgagtcttgg atcaagtayg atgtacaaga 60
 acgycagaaa tacttagcac agytactwaa yagtgtrmga ttaccattgy tgagtgttaa 120
 gttttctact agactatatg aagcaaatca tcttattcgt gatgatcgca cttgtaaaaca 180
 tcttttgaat gaagccctaa agtaccactt tatgcctgaa catagactct ctcatcagac 240
 agtcttgatg acacgacctc gctgtgctcc caaagtactt tgtgcagtag gagggaaatc 300
 tggactcttt gcctgttttg atagtgtgga gatgtacttt cctcagaatg actcttggat 360
 tggtttggca cccctaaaca ttctcgcta tgaatttggga atatgctgtt tagaccaaaa 420
 agtatatgtt ataggtggta ttgcaactaa tgtgcgtcct ggcgtcacta tcagaaaaaca 480
 tgaaaattca gtggaatgct ggaatcctga tacaataact tggacttctc tagagagaat 540
 gaatgaaagc cgaagtactc ttggagtagt agtacttgca ggagaacttt atgccttagg 600
 tggttatgat ggacaatctt atttacaatc tgtagagaag tacattccca aaataagaaa 660
 atggcaacct gtggcaccaa tgacgacaac aagaagttgt tttgctgcag cggatttga 720
 tggaatgata tatgccattg gtgggtatgg tcctgcccac atgaacagtg tggagcgtta 780
 tgatccaagt aaggactcct gggagatggg tgcattccatg gcagataaaa ggattcactt 840
 tggcggtggg gtcatgctag gctttatttt tgtggtgggt ggacataatg gagtctcaca 900
 tttgtccagc attgaaagat acgatcctca tcaaaatcag tggactgtgt gtagaccaat 960
 gaaagaacct agaacaggag ttggtgctgc tgtaatcgat aactaccttt atgtcgtcgg 1020
 tggctactca gggctcttct atctgaatac agtgcagaaa tatgatccta tctcagatac 1080
 gtggctggat tcagctggca tgatatactg tcgctgcaac tttgggttaa ctgcactttg 1140
 acaaatgtga actctcggaa atagtatggg ggtgaaactt gtactgcatg aacatccgga 1200
 tggccagttt ttctgaaacc cacaagctgc attgctttct ttttaacttg aagtagcatg 1260
 aaggctcaaa agttttgttg ggtactttta attgagaagt agttttggtt gctcttgatt 1320
 acacagtaaa tcaataatca aaaaaaaaaa aaaaaa 1356

701

<210> 1086
 <211> 703
 <212> DNA
 <213> Homo sapiens

<400> 1086
 gcaaacattg gacatctctg acatatTTTT tctcgTTTT agcttttcgg atgatccctt 60
 atcccttgga aaaggggcac ctattttatc cttacccaat ctgtacagaa acagcagacc 120
 gagagctgct tccatctttc catgaagtct cagtttacct aaagaaggag cttcccttct 180
 ttattctctt tactgctgga ttatgttcct tcacagccat gctggccctc ctgacacatc 240
 agttcccgga acttatgggg gtcttcgcaa aagctatgat tgacattttc tgctcggcag 300
 agttcaggga ctggaattgc aagagtattt tcatgcgtgt tgaagatgaa ctggaaatcc 360
 ctccggcacc tcaatctcaa catttccaaa actgaactca tcacccctct tccccacca 420
 ccaaaactgc tctctctct gtattcctra cctccgccat ccaccccggt gctcaagcsg 480
 gaaactcggc agcccttcca aactcttccc tctctcactc cccacatccc atcgtctcgg 540
 ccttcacaat ctgtcagttc taacctccta agcaactagg ccttcagtaa atgtgattca 600
 cctcttcttt cctctctttt cccaaaagca tccctcttag tctaggctct ttgttggttt 660
 cttggcttga acttctggcc ataagtctta acttggggct ccc 703

<210> 1087
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (438)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (446)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (474)
 <223> n equals a,t,g, or c

<400> 1087
 agccaaagtg ctggaattac aggtgtaagc caccacaccc agcaataaag catTTTtaatt 60
 tgcttctatt gagacaatac cctagaagtt ttgcagtggc agtgtgatga ccaatgaggt 120
 ttatctgagg tgcgattatt gctaattgaa gcagtgcctt ggaggtaact gaattcctta 180
 tcagtttcat acaatttcag ggcttgattt tttatagggt acccagacaa ttcattcaag 240
 ggctgcttta cttacggttc acatgtcatg taaggagcag tggttttgag cataaactct 300
 attcctggga tttatcagat accccacttt tgacaggctt tggatttcac ttttcagatc 360
 ctttttagga ttggcaaadc gctttcttca ctgtccctct agccaaggac aaaaaagtga 420
 ttccaacttc cccagcantt ttgggnaagc ccaaggcaga agggtttttt ttanggcc 479

<210> 1088

702

<211> 442

<212> DNA

<213> Homo sapiens

<400> 1088

```
tcaggccttc cctaacgctc caagcaccgc tggagccatt taatgggtga gggaacttgg 60
gtaagaggaa gatcaccccc ttctgtccc ctttctaggc cccctcaagt gcaggtgacc 120
cttaattggg gagatcttca gcctcagccg ccgacctttc cttttgtcc agttttggar 180
ttcccgtttt ttcttggtt gctttcmgag tgtaagggtc ggccgggtgag aaagatttcc 240
cccaaccttg attaatacagc cccctcccc aacttacttc cttaggacg ggtagggtg 300
agggacctcc tctctggaa agtgcttact ttgcctgggg aaggggctag acactgtccc 360
agggaaagta atagaagggtg gaagaaatca ataaaatcag accaggacgg agggaaaaaa 420
aaaaaaaaaa aaaggggggg gg 442
```

<210> 1089

<211> 1074

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1055)

<223> n equals a,t,g, or c

<400> 1089

```
gcactcttta catctttcat ataataagagt cactagcttc tgtaccaatt tcttgtcttt 60
agtgtacttt ggtaaagttt tataattaaa gcacatttct atcttgaagt taccatccaa 120
ggtggtttct ggatgctagt ttaatgattt aaacactagt ggctcactaa ttcactagat 180
agtttttgtt ctgttttctt tttgctgcct gtttttattt ttataattac attggcatga 240
atttccactt ttcaatcttc taaggaatat ttgagatttt tgctttttaa acttaattatt 300
tcctttaaaa ttctggaact tcttaagttg acattttaat ttttttaaat taaattctgt 360
agtgtcttta cagaaccgaa tattcttaat gtaagtataa gcattacaaa tccttgtaga 420
ataaatattt ttagcattgt tacgaagggt aaaaactggg ttttgttcac ttacatgtct 480
taaaattgcc ttaaaatgaa tacagaaatt tatatggcag cttctagtac agttgactgc 540
tttaacatgg cctgacatct agtgataatt ttctctctt caaatttctg ttttctagct 600
cttaaatatc tgtttctcat tcttataaat caagatgctt gtagtatata attctgagac 660
taattatctg cttttgaatt ttttccactg caattcatal aatgtgaaga tctgtgaaaa 720
tgctatggga aaactagctt gggttcaaaa tatcttaacc aaatataccc tgtaggcttc 780
ccaagagtga ctgtctgaca gttggtgact gtagaagaag ctgggtgggt gttttctggg 840
ccaaggaaat ttaaaatgtc tgcaatgtta tccatcatta ctttytgctg tcagaaggga 900
tggcagattg aagcttttct ccctatcgca ttttcagagt tgccgtgtca gagcttcacc 960
ttgggtaagg aaagatgggc aggaattctg ggaaacagaa ctctgagac ctacctctgc 1020
ctgcctaaaa atgtggactg actcagtatg agatnataac aagaaaacat ttaa 1074
```

<210> 1090

<211> 1163

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

703

<222> (159)

<223> n equals a,t,g, or c

<400> 1090

```
actgccccaa gctcaaggag atcaatttcc gtgggaacaa gctgaggag aagcgcttgg 60
agaagatggt cagcggctgc cagaccagat ccatacctgga gtacctgcgc gtcggaggcc 120
gtggtggcgg gaaagggcaa gggccgtgcg agggctcgna gaaggaagag agccggagaa 180
gaggaggag aggaagcaga ggcgggaagg tggatgatggg gargagcagg acgtgggaga 240
tgccggccgg ctgctgctca gggtcctgca cgtctctgaa aaccccgta cttctgacagt 300
cagagtgagc cccgagggtcc gggatgtgcg gccctacatt gtggggggccg tgggtgcgagg 360
catggacctg cagccaggga atgcactcaa gcgcttccctc acctcgaga ccaagctcca 420
cgaagatctc tgtgagaaga ggacggctgc cacccttgcc acccacgagc tccgtgccgt 480
caaagggccc ctgctgtact gcgcccggcc cccacaggac ctcaagattg tccccttggg 540
gcggaagaa gccaaggcca aggagctggt gcggcagctg cagctggagg ccgaggagca 600
gaggaagcag aagaagcggc agagtgtgtc gggcctgcac agataccttc acttgctgga 660
tggaatgaa aattaccctg gtcttgtgga tgcagacggg gatgtgattt ccttcccacc 720
aataaccaac agtgagaaga caaagggttaa gaaaacgact tctgatttgt ttttggaagt 780
aacaagtgcc accagtctgc agatttgcaa ggatgtcatg gatgccctca ttctgaaaat 840
ggcagaaatg aaaaagtaca ctttagaaaa taaagaggaa ggatcactct cagatactga 900
agccgatgca gtctctggac aacttccaga tcccacaacg aatcccagtg ctggaaagga 960
cgggccctcc cttctggtgg tggagcaggt ccgggtggtg gatctggaag ggagcctgaa 1020
ggtggtgtac ccgtccaagg ccgacctggc cactgcccct ccccacgtga ctgtcgtgcs 1080
ctgacscag ggcgcctgt ccgcgtttgt ttggccggtt ttgcggagggt ttctatgcgg 1140
caatgctgaa ttatccgtta gat 1163
```

<210> 1091

<211> 771

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

704

<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<400> 1091

```
agcnaganan ccaaccctca ctaaagggaa caaaagctgg agctccaccg cgggtgncgnc 60
cgctctagaa ctagtggatc ccccgggctg caggaattcg gcacgagatt ttgagcattc 120
ctctgatatt tgaaaaggaa gtacaacagg aaaggaagtc tgaggatgga agctaaaatt 180
ggtatgaatt tatatttttag agatcaaaat gtaccttatg ttgaaacctg tgtaagaagt 240
gatwatgtag aaagagtga aagtatagct cttagtctgg aaagcccact ggcttgtttg 300
ggcattttctc atggcttccc actcaaagtg gatcccaaaa atcacttgat ggatttcctt 360
gctgattttct aagtaaacta tgggtttaaga aagaaatgac agggctcagc actgccctac 420
agtaccaaga atacaaatgt ttccatgaag tcttcaaagg catttgtaaa attcaggctg 480
taagtgatta gttagtccat tctgcactta tttattaact gtatattcag ttccaggctc 540
tagggtagag attatggata aaggtgaatt agatagatga agtttttgcc ctcacagcaa 600
aagcttttagc caataattaa agctatcact ggaagtgggt ctgtgccaat aacctagaga 660
agagcagtg c ttttagagtt gagctatatt cccaatcagt tcttaatggt ggttttacct 720
ccttccctct acactgtctt ttcttgagat tggatcatgt gtgtgaacct a 771
```

<210> 1092
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<400> 1092

```
taggaaatca actgagtggg tgtttggaag aggaaggagc aactctcggg cagcctgccc 60
aagggaggga gcaagttgca atttanaaga tgccatacgt cgtgtgacag ctcattgagcc 120
tttactcggg ctggcaattg tctgaacact tgggttcagt tgaaatatat gtattttggc 180
caaaagccaa gcagcmcttc acaaaaacaa aacacaamcc taagctaaca aaatgmctgc 240
attcgtctct tttttaaagg tagagattaa actgtataga cagcataggg atgaaaggaa 300
ccaagcgttt ctgtgggatt gagactggta cgtgtacgat gaacctgctg ctttgttttc 360
tgagaagagg tttgaagaca ttttattaac agcttaattt ttctctttta ctccatagga 420
acttatttta atagtaacat taacaacaag aatactaaga ctgtttggga attttaaaaa 480
gctactagtg agaaaccaaa tgataggttg tagagcctga tgactccaaa caaagccatc 540
acccgcattc ttctccttc ttctgggtgt acagctccaa gggcccttca ccttcattgtc 600
tgaaatggaa ctttggtttt ttcagtggaa gaatatgttg aaggtttcat tttgttctag 660
aaaaaaaaaa tccctcccaa agtggggcaa aaagctttat atttatttga ttatccaaaa 720
tacagatcaa agtttagatc taaaaaaaaa aaaaaaa 757
```

<210> 1093
<211> 633
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

705

<222> (619)

<223> n equals a,t,g, or c

<400> 1093

```
gcaagactct atctcaaaaa taaaataaaa taaaataaaa taaaataatt aataaaatgg 60
tgtagtattt gcatataacc tatgcacatt ctcccatata gtttaatcat ctttagatac 120
ttataatgcc taatacaatg taaatgctat gttaaatagtt gttgttatac tgtattgttt 180
agggaataac aataagaaaa acagtctgta catgttcact acagatgcaa ccattgttaa 240
gcctgactac atcttttttat ctgcagttga ttgaatctat ggatgtggaa cctgtgcata 300
tggagggtca actgtactat aaataatacg aatatgccaa cattatataa tcattgcttt 360
ctgcaactgt ttactataat ttcaaaatta atatcctatt aactgttcct ataaattatc 420
aaatttggca agtgtattac tagcaggaga tggaccttaa attatgacaa ctttatattt 480
tttgatagca tctcttgaaa aagaatttta atgattctaa taagagggtc tttttctttt 540
ttccatttcc ttgacaaata gtactcattt aaaaactaga gggctaggct tagtggctca 600
cgcctgtaat ctccagcact ttgggaaggc tga 633
```

<210> 1094

<211> 548

<212> DNA

<213> Homo sapiens

<400> 1094

```
gtcgggggaca cattccaaga ggctaaaaag caaatttctg tacattagga gatttgtgag 60
tccttaggaa aggctcagaa gagggctcca cctagcacia tacctgacat agaaagtgg 120
cagtgtctgc agaataagtc ggcatagaac gtactttcct tggcagggtt attagggtgg 180
aaataacctgc agaataatgg gattgtacta gggtttcttc tggctttaga aaccatttg 240
tttactaata gattcccaga ggataccttg atctcaccaa gctatttgcc agaattgttc 300
ctgatggcct cattgaagaa agggggacta tgagccagat gctgggtgcc tgaagatttg 360
tagtttgtgg gatagtctta acttggcagg gtttgattaa cagaatgaag tctgttcctt 420
agagggaagt ctttgcttgc tgccctgacc tgctggacac tgtaatttg gatgaggtca 480
aagaaggcat agttaccaca tttgcaggag accctaacct ggaaatagta aattacataa 540
cattcaaa 548
```

<210> 1095

<211> 860

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

706

<223> n equals a,t,g, or c

<400> 1095

```
cagtgaacaa aattatTTTT ttaaagcaca taatccctag tatagtcaga tatatTTtAtc 60
acatagagca actaggTtgc aaatatagtt cagtGacatt tctagagaaa cTTTTtctac 120
tcccataggc tcttcaaagc atggaacttt tatacaacag aaatgttgac agaaattgct 180
gtagTTtagg gttgaagtac tgtatgatgg gcagcaatca tgtattaact tagaagggga 240
aattgaaata taggaccgaa tttggTTTTa tcagtttcca gagtactgct gccaacctag 300
acactgattt ttcagagttt gaaatgtaaa tttcttcccG ggacttgatt gcacatgaag 360
ctggactgCG ttagtcatcc tgtcccaaag cgctgtgggg gccagggtgg aggtctcaag 420
gcattccttTa tgacctggcc attggatgta aaagaaaaca tattccatgc tgtggTtctt 480
gtatcttTgtt tcattcctca ccattgaaag agaaagtcca tgtattgtct ccagcacatc 540
cttraaatgt tatactgggga tggattactg atgcccacg gtagttgagc cccagaagag 600
ggtagtagca tctctgcctc aggtgatgat ttgtancttg gccagaggag agcggagtca 660
ccagtatatc tgtggtccat gttgctagct ctggtaaaat taaaaatctg gtaagatgtt 720
tgtatcatta gtacactaga cagtaagctc tgtcttgntg ttttcaanta acctatattc 780
actTTtgttt gggcaaagac atttaaattg aaattcaatt ctaattTTtg ttaattgtgg 840
aaaggggtaa ttaacagatc 860
```

<210> 1096

<211> 1754

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1694)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1738)

<223> n equals a,t,g, or c

<400> 1096

```
ggagaaattg attcttcttc tctctttgcc aggaatagac atcaatgnta aagacaatgc 60
```

707

```

tggctggacg cctttgcatg aagcctgtaa ctatggcaac acagtgtgtg tccaggaaat 120
tttgcaacgt tgtccagagg tagatctgct cactcaagtg gacggggtga ctcctttgca 180
tgatgcactg tcaaacggac atgtagaaat tggcaagctg ctactacagc atggggggccc 240
agtgtcttta caacagagga atgctaaggg agaattgccc ttggattatg tggtttcacc 300
tcaaatacaa gaagaactgy ttgctattac aaaaatasaa gatacagtgg agaactttca 360
tgcacaagca gagaaacatt ttcattacca gcaacttgaa tttggctcct ttttacttag 420
taggatgttg ctaaattttt gttcaatttt tgatttatct tcagagttca ttttagcttc 480
caaagggtta actcatctaa atgaactgct tatggcttgt aaaagtcata aagaaaccac 540
cagtgttcat actgactggt tactggatct ttatgctgga aatataaaga cattgcagaa 600
actcccacac attcttaagg aactgcctga gaatttgaaa gtgtgtcctg gggtagacac 660
tgaggccttg atgataacat tggaaatgat gtgtcgtgca gtcattggag tttcatgatg 720
atgctagaaa gtatggattg actttctaaa tctgttcagt ttgcattggt acttactgtg 780
gacttcatag cttactgaca gatagtaatt tgatttatct attgacagac tttgcagcct 840
tgctaaattt taaaagcatt tttaaaaaaa cttctacaaa actctagtat gggcttctga 900
ctttttccag ggtgtagaat ttgactcaaa agtaaaaaata attttgttt agtatattct 960
actttcatta atgttttttt gttctgaaag tgatattata ttgtacatgt aaaattaatt 1020
taaataattt ttcaaataaa aatgtaattg cctgtattct agatgttcta ggtcttagaa 1080
tcatggcaag catattcata caaatgcgta cctataaact ttagctcct gactcttagg 1140
gatggatttt gagggaaaaa caagactaaa caaaaacatg tagctcccta tttcttctct 1200
ctagggttgt ggactgaaat atgcatttta gctttgtgtg tttctaaaaa aaacatttct 1260
aaaattttaca gtaataatta atattctttt ggttttttaa tgcagcaaat atgcagagtc 1320
tgacagttca attccttgat ctgttttatt ttagcaattc atatacaaaa tgtatctgtc 1380
gctgccctat gtaaccacgt attctgtacc tgaaaacatt ctgctgcata ggtttatgag 1440
tttaatatata agatatttgag tggcataagt aatagatttg agattattta agatcttaat 1500
atatagtatg aatttactga gtagtaattg tttaatttgc agnttttctt tatagcagtt 1560
tgtagtaaaa ctaaaagaaa gggngtggat aataaccact tttgagattg gagtttcttc 1620
actactggga gtaagttaca ttatgatata ggtggaaaat aaacacttcc atttagcttt 1680
tatgtaattc aagngatgac cttagcagtt aatctgctaa agcaatacac ttcagttnta 1740
ttttggaaat agat 1754

```

<210> 1097

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (765)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<400> 1097

708

```

aggattattc cttctcatct gctgcaatgg gtcaatgtgt taaggagagg agcgagacag 60
caagaaccgc attcattcag tcatacagrc caaaaggagg aatgtcgccc agccctctaa 120
actgaccag aaccagatc atgtytcaac tgctacctct cctacttaga aagaagtaac 180
tccaccaaag cagggttctg ggacaaatat ttttttattg atcatataca aatagatgaa 240
ggatggactt ggatgttaag aaaaataata ctatacaaaa tcgagagtag acagttgccc 300
ctagacttaa attaaaagtg tgcacattag ataatttaat ccaatgtatc aggtaaaaac 360
ttgaacaaac cttttggcct cttccttaaa attcagggaa gcatgtcctc cacaaaacag 420
aatcaaaata taaataaaag actgccttaa gacgaaagga aaccttacag atgaaaagaa 480
gccagatgag aggcacttaa ctaagaatga aaagaaactg agtggacaaa ataattatga 540
gaagatgaac cttcaaata gaaagaggga aaaaagctta tttgatacta tgggaactca 600
aaagagagtg aacacaaatg tgaaaattcc aagagtgaag aaaagtatca taactacatt 660
tagagcatga gaaaaagtat acaattttga gtaataagaa cagaaatcaa aagtaactat 720
tgtatgctgt atttttagtag agcaacmctg aagaagaaag gaaancanga anta 774

```

<210> 1098

<211> 164

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<400> 1098

```

aattcggcag agctgtcacc caggctggag tgttgtggca caatcttggc ttattgcagc 60
ctcaattcct gggcttaaac agtcctccca cctcagcctc ctgggtagcc ggaactacag 120
tcacggcact tccatgtccg gataattttt tttttttttt tnag 164

```

<210> 1099

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<400> 1099

```

ggcagctaag acttcagtaa aattgggggt ggggggaggg ttgacatttt ccgactgcct 60

```

709

```

gttacgtgcc aagtgccttt tgtaaggac ataatgtttt tractgggga tcatgtttgg 120
ctgatgtaaa tattaatgcc aaaataggag ctaggatgaa agtaacactg taattagtag 180
tagaatttat ttcataattaa aatgtgtcat gacgtaattt ttatggcttg gctcaagcaa 240
caattttcag agtgcacgta agtatcaacg cgtaaaactt aacattttac agtggttatt 300
gggtattattc tctatgaagc tgtctggatc ggtctccttt tcccattggg taattgggta 360
atgctcagat tttggctcct agaatcgatc tgtgtgttcc cggctctggc atctcattat 420
gtcatttgct gkattttttg atatattatt gtacgtgcaa attgargtga awttgttgtt 480
ttagattaag actgttggga ctcaagctac aacgaggtgt ctctggnggt aaaaaaactg 540
gcagttttaa gatttgggta aatcccgnnc cccggg 576

```

<210> 1100

<211> 829

<212> DNA

<213> Homo sapiens

<400> 1100

```

aaaaaaaaaa aaaaaaaaga atatccctgt ggcaatagtc tgatgggtgtt tggacacaag 60
aaaagttatg gttttgagtc gtgagtgttt gctagggcat ggcactcttc agtttaacag 120
ctgatccatt aaaccttttc tgacatttgt gccttgttct catgctagaa ttaatgctgg 180
atttttctct catttgacca tcaatgtagt tttacttatt gaaaggaaaa aagacttaac 240
acaagatagg aaagatgagt atgagaagta aaacattctg ctgggggtgct acatagaagg 300
ttaggttgta ggggctttga ttttaattta aacttattat cgattgatat ttctgtatct 360
cactaaatgc ggttgaagag tgtgtgtgtg tgtgygcgcg cgcgcagtgt gccaaaaaat 420
agtgccataa tgtcaaattc ttcctttgct ctgtttttga gaggttgatga catcaggcac 480
ttttcagtggt ttgggggaaat tgattgggat acctcccca aaccaactca agtctgtaac 540
tggaagccag gtggttggtt ttctgggtccg ctttgtcctc tttcttttac cgtcatccta 600
ttcaccagca cttaatgtaa gtagatgttt tagaattgca atatttattg gtttagtatt 660
tgtcatcctt agaaatgtta atgatgtatt tttatattga taatataaat ttrtgtagag 720
tatgtgtgta tatgtatttc aggatgttat agtattgtac ttgtgatgtg atgggtttttg 780
tgtcttcata ataaatatgt ccctttttaa aaaaaaaaaa aaaaaattc 829

```

<210> 1101

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 1101

```

gcgggagtgcc gccacgccgc gcgtggggct gtggtggccg cggctctcag atatattttt 60
gccatcatgg atcagtttgg agatatatta gaaggtgaag tggaccattc tttctttgac 120
agtgactttg aagaaggaaa gaaatgtgaa ctaactcakt ttttgacaag caaatgatg 180
acccaaagga aagaatagat aaagatacaa aaaatgtaaa ttcgaacact ggaatgcaaa 240
caacagaaaa ttatcttact gagaagggaa atgaaagaaa cgtgaaattt ccccagaac 300
acctgtaga gaatgatgtt acacaaactg taagttcttt ctcatgcca gcctcttcaa 360
gatcaaaaaa attgtgtgat gttacaacag gacttaaaat acacgtgtcc attccaaata 420
gaattcccaa aattgtaaaa gaaggtgaag atgattacta cacagatgga gaggaaagca 480
gtgatgatgg gaagaaatac catgtgaagt ccaagtcgcg taaaccatct actaacgtta 540
aaaaaagcat aaggaaaaag tattgcaaaag ttagctcctc ttcctcctcc tctttatctt 600
cctcatcttc aggttcagggt acagattgtt tagatgcagg gtctgatagc catctatctg 660
attcgtctcc gtcattctaag tcattctaaga aacatgtatc tgggtataacc ctctgtcac 720
caaaacacaa gtataaatca ggaataaaat cgacagaaac acagccttca agtactacac 780
caaatgtgg ccactaccct gaggagtctg aagatactgt gactgacgta agtcccttat 840

```

710

caactccaga cattagccct cttcagtcct ttgaactggg catagcaaat gatcaaaaaag 900
 tgaaaattaa aaagcaagaa aatgtgagcc aagaaatata tgaagatgtt gaggatttga 960
 aaaataattc aaaatatttg aaagcagcca aaaaagggga agaaaacttg ggccgtgttg 1020

<210> 1102

<211> 593

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 1102

aaattctcaa atatgggaga aattttnttc ttgagaatta tctgagtcac taatattttt 60
 caaaaacagc tctcactgac ttgaacctct tctgtaagct ctaacctttt acctgcttta 120
 catttccact tgaatgtcta gtaggcacat cttgaccaa aacagctttt gattcctgtt 180
 ctccaacctg ttcctctcct agttttctcc atctcagaaa tgttacttcc tctgcaaagt 240
 ctttccctga cttatctaaa ataataacct cctctgtttg ctgtgggaat ttgtatagaa 300
 tgggtgggaaa atttcaagtt tcatatttgg attagctctg acatttattt atctgaacac 360
 tggtaattgc ctcagtaaag acactgataa taagtacctt ttagagttat tttaatcttt 420
 aatgctttta tgtgtaggaa gagtatagtg tcctgttttg cacagaaagg cattctgtaa 480
 ataataagtt gccttaattt tcctgtaatg ttcattatat tgttgtggga aggtattttac 540
 tcctattatt aaaaataaaa atgtgtaaaa tttaaaataa caaaaaaaaaa aaa 593

<210> 1103

<211> 1429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<400> 1103

tgnccaggta actttacact tacaatgaat tcatggattt tgtagcagc attggctttc 60
 tcaaaaggac aaactcaata tcgttataaa atataattcg tgatcacaaa ttatacaaaa 120
 atcagtagaa acagtttttt atgttcagat taaaaaaaaa aacttgggat aattttarat 180
 ttacaaaaaa gttgcaaaga tacatggaga gtttctgtga ccaactcacc agttccccca 240
 gtgttaacct tttatttaac catgaagcat ttgtcagaag ctaagtaacc agcaatggca 300
 attactatta acggaacttt gactttattt ttcagattgt actagttttt taattaatgt 360
 catttttctt ttccaggatc caatctagga taccacactg aattagtcgt catgcctaata 420
 tagcctctgg tctgtgatag ttccacagtc tttctttttc ataaccttga cagttttgag 480
 gagtactggg cagggtgttt gtagaatatt cctcaatttg gggttgtctg atgttttctc 540
 catgggttaga gtgggggttat agatttttag gaagaatacc agagggtgaag gtccttctca 600
 ctgcatcatg tcaggagtta catgctatca gcttgatggg gtattaaact tggacacttg 660
 gttaaggtag tgtgtgttgg ttttttctg ctgaaaatta ctgttatatt ccctttccat 720
 acttctgttc tttggaaaac agtcactaag tccagtcatg ggagggtggg ggtggggaag 780
 attacattca accccctgga agtggggaata tccatatgta gtatttggaa tttttctata 840

711

```

tggaaaattt gtttctccct cccaccctaa tttgtttaca tcagtatgga ctcattgtata 900
ttttgtattt tgggtaacac agtattttatt ttgttgctta agttgtccag cttggctatt 960
aggagttctg ccaggttggc tactatgtcc ctttgatgtg cccatccttt tgatttttga 1020
gcacttctta ctttctggca ctacaagatg ctccagggtc atcttggata ttccctgccc 1080
caaccctaga atccctagaa tcaacccctg ctccaaagag ccctgggtcc ttttgttga 1140
gaatcatact tagaaaccaa gatctgggca ttagatgtgc ttgttgctac tgggatgtca 1200
ctgtttgtag cagagttgag aaatatgtat gtatattaat ccatgcatat gtacacatct 1260
ataattattt atgtgtgtac aaagctaaac atgagtttgt actgccgtct tcaactcaaa 1320
atttgtccca aaattttgtg gcatatgttt agatttttaa gttgatattt tccctattga 1380
cagaataaac tcattaaaag agcaaaaaaa aaaaaaaaaa aaaaaaatt 1429

```

<210> 1104

<211> 727

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (709)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (716)

<223> n equals a,t,g, or c

<400> 1104

```

ngttgagtta tttagaattt tatctcaagt gaaagctgat ggattcatct gctttggctg 60
aaattaaact tatcattagt ctagctagca tttcagcatg atattgcaag cacttctcat 120
tgctaaaaat aaataaacca aagtttaacc gaatcagtta gggaaagtga tttaaacttt 180
atttaaagag gtatttttcta attatgcaca gatatctact ttatacaaat acttttatatg 240

```

712

```

gctatttttg agaaaaccct cacattttta tgtttatgct agggatgaac ctgaaaattc 300
tattacgttt atttagattt caaaggcaaa tattgattcc tatgctctgt ggttttattc 360
ttttttctat tgcttctttc tcccttgagt cccttgaagg cagggaatag acttctagaa 420
aacctgagag gaaaaagaat tctttttaca ggaggcagca gaaaactgtc tgaaaggtca 480
attgttttat ctcccttttc actctctttc caatttgggn tttggtggtc tgaagaagaa 540
aaagaaattt tatgtatgta tgtgtaaata tgtgtatata tttctatctc ttgctacaat 600
aattccaact aagtgaactt ctcaattatc atcatactta cttaccttat attaacanat 660
taagatgatg ctgccaaaac aagtctagca gggaaaacag gttctacant tttngnaaat 720
aaattaa

```

<210> 1105

<211> 605

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 1105

```

atgtctgcag tatanatagc atagacattt ggtgtgaagg gaggagaaag gaagtagtag 60
ttctgagaat attcatttga acagagtgc tatggaagaa tgaatagcaa aaaaaggaga 120
atTTTTTTTaa aaagatctct cactgggaaa agaaaaagtt atgcatttat aaagtaatta 180
aactggTTTT ccttgtactt tattaatctg aatctaattg cacttcctta cgagggtttt 240
cagatgtgct tgtagttaat ggcaacatta tcagaatgac tacacagaca gtccactct 300
gaggagatga ctttgggaaga aaccatttg gaactacaca ccctgctatg tctgtggaga 360
aatggaactg caatcctcaa gagtcacact tcatattcct tcctttcaag tggttgataa 420
aaggtagtgc ttcaagcaca ggatttatgg aatagttggc aaattaaaca acatgctttt 480
tattttgact accatttaag tggaatcttt gaactttttt tttgacatgt gaatctctaa 540
tgtggtgaga gagaaaaaca taaaaatata aaaacattca aaaaaaaaaa aaaagggcgg 600
ccgct

```

<210> 1106

<211> 805

<212> DNA

<213> Homo sapiens

<400> 1106

```

ggggtgcacc tgcttgtgca gtcagcatgt agctgccttt ccatttcatt ctctactggg 60
ctaaaaattg cagctacaag tgttaccatc ttgaagcagt ccacttccat tcaatttttt 120
tttttttaatt ttagaataac agtgtcccca taccaaagga agcctgctag ctcatctcat 180
gtataaaattt cccatcttca aacagtttag gtgtatttgt tgctctggtc acattctgca 240
taaaagaaat cctcttaagc ctatggttaa gaaaagcctt gaagtttata ttcagttaaa 300
atatatgtcg gtggagatag ccagtgcctc taattttgac ttagtttcat acagtaaagc 360
ctaaatgtga aacgcacacg ctggaagata ttgttcctat caatatTTTg ctttttataa 420
caagggtttg ttcataattga tgccattttt gcaggatttc ttcgtgattt ctgtccatat 480
gaaaatgctg acattaaaca ttaacacatg gagaccgtgc cctgtggccc tgccgtggct 540
gccagcatgg tctgtgtttc cttgtggatt cacctgtggc cctgctgtgg ccaccagcat 600
ggtctgtgtc ctctgtggatt cactgcagct gtccgatgcg agtttctgtc ataattcatt 660
gtttcctgat acaattgttc ttattctttt ccaaaactgt aaaataatct cctccctcaa 720

```

713

atgcaaaggt tgtttttggt ctgtttctgt tttctttgaa ataaaattat aacgttaaaa 780
 gaaaaaaaaa aaaaaaaaaa aaaaa 805

<210> 1107
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<400> 1107
 acactatatn tagggacanc tgcccgtacc ggtccggaat tcccgggtcg acccagcgt 60
 ccgtactgcc ctttttyaac ctcagatgtg actttcatta taggaagttc tcaggcattt 120
 tctcttgga taatacctct tctctcttct ctttatgtcc ttgtgccgca ttctgggtta 180
 ttccttttagc tctagggttaa gttcactaat tcttccttta gctgtatttc attattgttt 240
 aagctgtcca ttgcatttta aactttcttt caaatatctt cccttcctt cctttccctt 300
 ctcttcctg ccctgccctg ccctgccctg ccctgccctc ccgtccctc ccctc 355

<210> 1108
 <211> 447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (357)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (442)
 <223> n equals a,t,g, or c

<400> 1108
 cccacgcgtc cgggttattt gtattttacc tggcaaccct atgttggagc ctccttcct 60
 gctgcagcca acaggggtag aggatctgag ctgcttattt gtaactgaaa gtccatggga 120
 ctgcttttat ttgggggaat ttttctgtta actgtcatta tgaaagtgat cacgatgaga 180
 gattcagatt tatttttaaa attcgggtga ggaatatctc ctcattgatt tagatctttg 240

714

```

atTTTTTTtca tcagagggttt tgytttccctg ctatagattt tgcatactctt ttgttagatt 300
tataacctgaa ggTTTTgtct ttttggaaatg tgtgtttttg cacgtgtttt gctaanttgt 360
ttttaaatTC caaatTTtat tgcttggcat ataacaattt gaattttngg tatattaacc 420
ctggtgaaaa ggaacccaaa anaacct 447

```

<210> 1109

<211> 802

<212> DNA

<213> Homo sapiens

<400> 1109

```

ggttacctcc tgaatcactg tatatgccat gttttgcgat aagattgctt gcattttctg 60
ctcaacaatg tgtatcttct gtttgggaaa gcactagtga tggattactt tttaaagcaa 120
tacatttagc ttgcaaattg tgcctttaaa aaaaaaaata ggcagacttt tgagggccaa 180
gaagggaagct gtccagtttt ccaaaaatcc tttttccctg ctatcagaaa tgtgaaacca 240
aatTTtagcaa ccaagattaa tgaaaagatg ggTTTTccat tagtgctgtc cctatcttgt 300
tcttggtctt gttatgtcct ttcccctaga ctgtatcccg acaaaatgtc ctagtaacaa 360
attgctTTTT aagctcctgt tctgggaaaa ctaagcatta aaattgatta ttctaaaaca 420
taaagtggac taaagccatc ctatTTtata atTTtcta atgaaagtgg ttagtataga 480
gttaacactt agaagtTtat agtttactgt ttttattctt atgtactgta aggaccatat 540
ttgagTTTTT ggtctattcc taccattgtt tctttgtggg gaggagtTgg ggcggTTTTg 600
gggattggtt tttttTTTTt gttttTTTaa actacaggta tttgtaaaac aatgtttggg 660
ttcaaacaaa ttagttgtta aacatctgta atccagtttt ctgtaaatgt tgctgttgtt 720
ctaagctctg ttaatgttaa gcattctttg tatataaaat tacaataaaa tgttaaaaact 780
gaaaaaaaaa aaaaaaaaaa aa 802

```

<210> 1110

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (407)

<223> n equals a,t,g, or c

<400> 1110

```

aaaatgcaaa gctgattttc atgtttatat atattcatat cttgatatat tgcaatttta 60
gagtttctgc agtctgtcta acttggetgt ttgttcatag gccagatcaa actaccctca 120
ttccccaaaa cttggattgt gaagggatta gtgccccaga actctctgtg ttactggcag 180
ggcaaaatgg gtaggaatag tctggcttag ggaaaaagac atattttctc tctaacacaa 240
ctggcagata ctgaagtggg caggtggcaa gaaaaggcaa gtactgagct gattcagact 300
tgcagaaagc ttctctcct ccttcttagc aaaatgaaag gctctgggaa aaggcacctg 360
cctttccctg ccttgaggat cctggcatcc ttgagtcttt attgaanatt aatttaatga 420
cttgggtcaac aatagcatta cctaatacaca gagcatca 458

```

<210> 1111

<211> 754

<212> DNA

<213> Homo sapiens

715

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<400> 1111

```

tatagggaag gctggtagcg ctgcaggtac cgggtccggaa ttccccgggtc gacccacgcg 60
tccgcaaatt cttttgtcaa atttgcaaatt attgaagaag acacaccatc ctatcacaga 120
cgttatgact tttttgtgtc tgcattcagt gccatgtgcc attcctgtca tagtgatcca 180
gaaatacgaa cagagatagc aattgctgga attagaggta ttcaagggtg gggtcgcaaa 240
acagtcaacg atgaacttcg ggccaccatt tgggaacctc agcatatgga taagattgtt 300
ccatccctcc tgtttaacat gcaaaagata gaagaagttg acagtcgcat aggcctcct 360
tcttctcctt ctgcaactga caaagaagag aatcctgctg tgctggctga aaactgtttc 420
agagaactgc tgggtcgagc aacttttggg aatatgaata atgctgktag accagttttt 480
gcgcatttag atcatcacia actgkgggat cccaatgaat ttgcagttca ctgctttaa 540
attataatgt attccattca ggctcagtat tctcaccatg tgatccagga gattctagga 600
caccttgatg ctgcgtaaaa agatgctccc ggggttcgagc aggtattatt caggttctgn 660
tagaggctgt tgcattgctg ctaaggttca taggtcgaca gtgcgaagct tcataccttt 720
gaacatcgcg ctcagcgtga tcgaacaatg attc 754

```

<210> 1112

<211> 624

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 1112

716

```

ggtcctgagc tggctgccgc ttccaagaca gtcgctttga gggctcttgg caccgatttt 60
gttaaaatgc atgagcttag gggtgtgcag cctgtagggg caggggtggg ctcagaatgg 120
atgttggtggc cccaccgtta attaatgtcc tgacccttgg gccgggtggg aggtgggaag 180
atgagcctgt gtctcccatg ctgagccaag atcctcaggt accagtagcg gtcaaagcac 240
ctgctccctg aaggaagctt acctggctta gcctcattcc tgctcgtaag tcaggcattc 300
agcttgcaaa gatccccaag cacacaagga gagtcagctg actgagggcc aacagaaaca 360
gcaggcagcc gctgtcagcc acaaagaaac gcagatcctg aaactgtcat catacaggtg 420
agaggatagt tatgtgtgag gtgttcaaag aaagtcgcgc agtcagtgat gagaaagctg 480
katgggtaca tactgtcacg catgaatagg caggactcct taaagaactt tttgggaaat 540
gaaaaacang ccangtgcaa tnggttcatt cctataatcc ccaacacttt nggaggccta 600
aagggggagg atcactttga ncct 624

```

<210> 1113

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 1113

```

ggaggggaaa agccctcctt tggcaccccc tcttccctga ctgctgtccc ctaccacacc 60
ttgccccctt catccttttg cgtttgggat tgagactctc ctgactctta ctctcttttc 120
ttttgtatgg acagttcccc ttcagtccca tccccctaca catacaccca gccggggcca 180
aatattatact tatataaaag ttgtaaatat gtgaaatttt atccctgtgc cttttcccca 240
cctcaggccc tacccttgga cctcccca ccttcttctt ctcttctttg gctgttgtaa 300
ttatctgggg tttgtactgt acatatccgg ggtgtgtgtg tgtgggctgg gggcaaccct 360
tctgtacaga gcttcctggc cccctcccc cccgcccctc tgcttccctc cccaccacc 420
acctcaaggg tagggagtgt ctcttcttac ctgttttatt ttgttttctc gttctccctc 480
cccacccacac tcccagcctt atctatcccc cctcactgtc cctttttctc cactcccagc 540
cccatcttct ttttttctgg agtgtgtggg gaaacagaaa aaaacatgtt taataaacgg 600
agattgttct tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaanc 660

```

<210> 1114

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<400> 1114

```

ttttgaaatg tttttgattg ttttatataa setagagtga ctcccttac ccttatttag 60
atctgcatat atagtcttag tatgaagttt aatagtttaag gagttagcta tttgttatct 120
ttaagagtag ggtattgacg tgaacaattg cagtattttg catgatactg ttttatagat 180
gaccttttag gaaagtgggt cattttattaa ttgaactgaa gaagtagttc agttgaattc 240
agtatcataa ttcacaaatt ggaggctggt gattttgatt catttaaggt ttaaaatctt 300

```

717

tattaattgc aaacagtgc attatattata cttcacagtg ccttcccaga ccttccacct 360
 taggttctgc tgcaaaaagc accaggtaag cmcaacctaa ggacatatat aaataaatat 420
 ttcaatrcat taatgttgct cctgtgaggt ttttgtgggt gtgtattcaa aggcaatctg 480
 ctactgcttc cccaaaatgt attttgnat tttatgc 517

<210> 1115

<211> 886

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 1115

gccgtcntca aaaaaaaaaa aaaaaaaaaa acaaaaaaaaaa aacaaccag aaaaacccaa 60
 aaaacaaaca aacaaaagaa ccaaaaaccc ctttctttca tgcctagatt cattccaaaa 120
 aggtttaaga cagcaacaag tgattccagg atctcagctg tgggcatcct tgtgttactg 180
 gatggctgtg tgtaaytgt tagcagctgg aataagtga gaggggtctg tcctcact 240
 caaagtcctt tgctcatgcc caaggccaga ggynactcat gctgaaacat taccatctcc 300
 ctccaaagtg caggggtttag tctactgagta ctgggtggag cacatgactg gatcccagtt 360
 aatccctccc agcttaccag taaaacctca ggattcatgc tttcctggga gccacctkcg 420
 gccactaaga taggagcggg gttcagacat ggccaggcgc tcctaattctc agacccaaag 480
 tgcaattttt ggcagcctgc rtgagaagga ggggtgggag aaaggtggct agaaccaagg 540
 gtagcagcct gggggcttga gaggaaaccc argcacagcc catcctaccc tgtctcacga 600
 gcagcccgtc ctctctctga ctcccccttac cccacacacc gagcgccatt ctcttgctgc 660
 ctcatctatt ctgggttaggt acttactgag catcaggtgc taggcaagtg gctggggaga 720
 gacaacgttt aatgactcag tctccgctg cacagagcct ttgagtctag agggagacac 780
 agacttactg acaggctggg ttgtgtaata agtgctacgg gaggaaaagc tgagagtgtc 840
 tgagaattta tgagatgtgt gtctcatcag acttgggcat caaaaa 886

<210> 1116

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

718

<400> 1116

```

agacttatga taataagcaa tattttgcaga gtattttgtat gtgccanaca ctattgtaag 60
tgcttcatca tgtactgatt catttaatac tcacagaaat cgtaaatang ggtattatc 120
ttatcctcac tctatggatt aaaaaaacta aggcacaaag ggtaaagcc tccttgctg 180
agattataga ctgtaagttt gaacgttgag cacttggaat acagarttca tgctgtaaac 240
taccacacta tagggcctcc aatatgataa tttataaaat atttgaataa aaaatgaata 300
ctagttccac atttt                                     315

```

<210> 1117

<211> 749

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<400> 1117

```

nccgacagtg accggntccg gaaattnccc gggtacgacc cacgcgtacc gccagcatgg 60
gccaacagaa caaggacctt gtctctatct tgttttttgt ttttgttttt gttttttcat 120
ttttcagtggt tcttaagttt aaaacaaaaa aaaaaaaaaa aagaaaaaga aatgcaaagc 180
tttattttat gagtcagagg acttgatact aagtcttaag attgtaatac tgcccctgcc 240
aagttaatct gcaaattcaa caaattcaaa aaaacaaaaa cctccactcc cagatacctt 300
tttgcaaaaa ttgacaaktt gatcttaaaa tttatgtgga cccagagtag ccaaaataat 360
cttgataaat aacatatattg gagtactcac tcggatatca aaacttaggg caaaactaca 420
attataagac aggcataaag ataagcgaaa taaaagtcca gaaataaacc cttgtgtttt 480
gtagtcartt gatgtttggc aaaagttcca agacaattca aatgggaaag aatagtctct 540
tcaacaaatg gttttgggac aagtaaatat tgaccctcc tttatgcat atacaaaagt 600
taaaactcga atgtaacaaa cacctaaata taagaattaa aactataaaa ctctaagagg 660
aatatctaag ggtaaatctt cagcactttg gggtacacaa agccttggtg atgtgacaag 720
tcacaaaaga aaaatagatg aacaccaca                                     749

```

<210> 1118

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

719

<222> (598)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (636)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (686)
 <223> n equals a,t,g, or c

<400> 1118
 gggagatggc gtgcaagtat ccgctgcggt gttctggtgc tagagtggag aggctggcaa 60
 agaagaaggc acacgcatgg tgagaatccg gcctgagccg aagcggagtt tgctatggac 120
 agcaaccatc aaagtaatta caaactcagt aaaactgaga agaagttctt aaggaaacag 180
 attaaagcca agcatacttt gctgagacat gaaggcattg agacagtatc ctatgccact 240
 cagagcctgg ttgttgccaa tgggtggttg ggtaatggtg tgagtcggaa ccagctgctc 300
 ccggttttag agaaatgtgg actggtggat gctctcttaa tgccacctaa caagccgtac 360
 tcatttgcaa gatacagaac tacagaagaa tctaagagag cctatgttac cctcaatgga 420
 aaagaagtag tggatgattt aggacaaaag atcactctgt atttgaattt tgtggaaaaa 480
 gtgcagtgga aggagttgag gcctcaagcc ttaccaccag gactcatggt agtagaagaa 540
 ataatttctt ctgaggagga gaaaatgctt ttggaaagtg ttgattggac agaagatnca 600
 gaccatcaaa actctcaaaa aatccttaaa acacanaaga gtaaagcatt ttggttatga 660
 gttccactat gagaacaaca atgtanataa agataagcca ttatctgggg gtcctt 716

<210> 1119
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (265)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (276)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (347)
 <223> n equals a,t,g, or c

<400> 1119
 gttagtgtat aatgagccca agtgtgattc ttcccatttg ggaattctgt gaatcctgct 60
 gtaggttggt gcctgtctga ttataaaaaga ctaggctcat gtttttgctt taaatgtttg 120
 agattatggt cttataacctt agtgcttctg gggcaatctg aacattgttt gctttgtaaa 180

720

```

ataatttctt ttagagtart ctcatgccaa atttactggc ctttgattca gtacagttgg 240
gtttactgta ttagtagtaaar ttganaccct gcgtanattg gtctcatgtt agcattcttg 300
gggaagcttt gaaaaatttc ccaagttaaa aattccagaa attgatnttc cccagatctt 360
ta 362

```

<210> 1120

<211> 1248

<212> DNA

<213> Homo sapiens

<400> 1120

```

gcagaaatgc tggggcctgg aataagggag gagaggggac tggagagtgt ggggaatgga 60
aagaagcagt ttactctaga ctaaagagta tattggggga ggaagagagg gaggcacgta 120
tgaacaagca atgagaagac caggaaaaga aagagctgaa aatggagaaa gccacagtta 180
gaactgttgg atacaggaga agaaacagcg gctccactam agacccgccc cccgggtkga 240
tgtccttcca agaatggaat ccttccctgg tgatggtctc tcrccctgtc ttaccagcat 300
ccactctccc ttgtcctccc aggggtgtat ctgagtcagc cagtggcttc ttgatgatgg 360
tggtggtggt ttagtgttga cagggtccct ttaggttatt taagggtgca tgtcccctgc 420
ttgaaccctg aaggccgggt aatgagccat ttccatggtg cccagctgag gaccaggtgt 480
ctctgagaat ccaaaccatc tggagagtat ctgagaacca accaagtaaa agtctcgttg 540
ctcatatata gtagacaaag agccagaaaa ttaactgaaa agcagtttag acattggggg 600
aggcyggatc tctcgagctg tcttgctgag tgccctgtgt gtaagtccta ataaacttag 660
ctactcgcca agctggactt gtttgagtca ttccttggtc tcatggctcc tttcccgctt 720
tgaggggcaag ttctgtctc aagtttttgt cctaacagtg gtaaagggtga ttgtggtgat 780
gtcagcagac agcaagagga cttgacatgg ggtcggccct gcttggggcc agcgtacact 840
gagggaccga tgacatttca atgaaactcc aaatgctata ttggaaacgt tgatgtgtga 900
agaaaaataa aagcaaaacc agatgccagg aacaagtcaa aatgttgtgg tgcattgagg 960
agatgaacca gcctgcagtc aagagacccc atctctctga gcctcagttt cctcatcagc 1020
tgggaaaggg gggctggaca agatgatata tcacatccac ctggccctct tctcttgtgt 1080
tctagagact tgtgttcaag caacactgac tgatgactga gccttttgtgt gctgatata 1140
gggctccctt aggtctctgg tgctgactt ctcttctca tgattcttct tccaggctct 1200
cagggagcta ggctccatg gcccttctg cttactctcc agactgcc 1248

```

<210> 1121

<211> 723

<212> DNA

<213> Homo sapiens

<400> 1121

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gtgatccctt cagattgaat taacgaaaag acaacacttc cagtttttgg attgggaaat 60
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gatcataact aggcttgaaa atcactacac atattttctg ccttgagtga acatttttag 180
aggaaagggt atgccaatctt tttaccctaa ccactgatat tctggtttagc agggccagga 240
caaggggaag gaaaatgagg tcaacaaaaa aatcaaattt ttaggaaaag ataagatgaa 300
tgttactgat ttttctttt ggctgaggct gcaatatggc ctggcaaggc actgktactg 360
atcttgkctt taacattttg atattttgtt catcataatt tttgcattta tttttttaa 420
tattgcatta aaatatcatt tagcttgatt atcgagtttt ttggtttgag gttttttgtt 480
gcttcttttt tcttttcttt ctttccccct cttttttttg gatgtcccct taaattttgt 540
cccaaggcag gtacctcact catctcatcc ttggctcagc cctgctgggt agtathtagt 600
atatttttta gtaagatatt tgtgtctgta tgatggctcag agttgaactg atctggcttg 660
tcatttttca gtaataaaaa aagttagtga atttaaaaaa aaaaaaaaaa aaaaaaaaaa 720

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721

aaa

723

<210> 1122

<211> 782

<212> DNA

<213> Homo sapiens

<400> 1122

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tttattctca gaagacttac tatgaatgag ctaaatagtg tttcagatct ggatcgttgc 60
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aggggtaacc ctatctggag agttatttct cttttgaaaa atgcatccat tcagcatctt 180
caagagatgg acagtggaca ggagccaaca gttggaagtc agattcagag agtagtgagc 240
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cagaagcccc acgcagagga gcagagcagt tatgctcacc ccttggagtg cagcagtgtt 420
ttggaagaat cgtcatcttc ccaaggatgg ggaaaaatag ttgcacaata tattcatgat 480
caatgggtgt gcctctcttt cctgttgaaa aaatatcaca cccttatacc aaccacaggg 540
agtgaatttc tggaaaccgtt tctacctgcc gttcagatgc caataaggac tttgcagtct 600
gcactagaag ccctcacagt tctttcttct gatcaagttt taccagtgtt ccattgcttg 660
aaagtgttgg ttcccaactt ctgacttctt ctgaatcact ctgcatagag cttttgacat 720
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tt

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<210> 1123

<211> 768

<212> DNA

<213> Homo sapiens

<400> 1123

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ctagttctag atcgcgagcg gccgcccttt tttttttaaa gaaacacttt ttattttgaa 60
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cccagtgggtg acaactgtag tataatatca attctgggaa attgacattg gtacaatacc 180
aaatatacta tgcctttttc tctaaggcat gatgttgcag tagcatcctt gtacatgtag 240
ctaggagaac ttgtactaag cccagataaa tagttgaagt acaagggcra ggagtgtgtc 300
tttgatattt taatagaaat cacctattgc cctctagaaa agctgtaccc ttttccagtg 360
gcagagaacc ttcttgaaag gcagtcctgt gtaatggtgt ccatttcac acacccttaa 420
aacactcagc ttttaacaaac atgcagattt ttgctgatgt gggagaaaat attaatatt 480
aatgatatta aggtgattat cttttcgtat gtttatagat atttgtattt ctttttaaat 540
gaactgctca tgacctttgt ctacttttat ttgggtttac ttctttctca tttattccta 600
taaactcttt ataaaaggaa attaaccatt tgattgtcat atgttgtgaa tatttttacc 660
attttgactt ttgaatttat gtctttttta tgaattgtag aagtttaaaa tctttatgga 720
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<210> 1124

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

722

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<400> 1124

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gagcgggaagg tgccccgggg ccgaggcccc tgacggggcg ggccgggagcc ccggcagtc 180
ggggtcgcgc gcgaggggcca tgtcgctgtt gggggacccg ctacaggccc tgcenacctc 240
ggccgcccccc acangggccg ctgctcgccc ctcc 274

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<210> 1125

<211> 1135

<212> DNA

<213> Homo sapiens

<400> 1125

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catccaggca ggcgaggaga agctgtgatt cccccatcc ctctgagggc cggcggatgc 180
tggatccgga gccccaggtt ccgccccaga gcggtcctgg acaaggccag accaaagcaa 240
gcaggggcctg gcacctccat cctgaggtgc tgcccccca tccaaaactg ccaagtgcct 300
cattgccttc ccaaccttc cagaggcttt ctgtgaaagt ctcatgtcca agttccgtct 360
tctgggctgg gcaggccctc tggttcccag gctgagactg acgggttttc tcaggatgat 420
gtcttggtg agggtaggga gaggacaagg ggtcaccgag cccttcccag agagcaggga 480
gcttataaat ggaaccagag cagaagtccc cagactcagg aagtcaacag agtgggcagg 540
gacagtggta gcatccatct ggtggccaaa gagaatcgta gccccagagc tgcccaagtt 600
cactgggctc cacccccacc tccaggaggg gaggagagga cctgacatct gtaggtggcc 660
cctgatgccc catctacagc aggaggtcag gaccacgccc ctggcctctc cccactcccc 720
catcctctc cctgggtggc tgcttgatta tccctcaggc agggcctctc agtccttggtg 780
ggtctgtgtc acctccatct cagtcttggc ctggctatga ggggaggagg aatgggagag 840
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aggtaagatg ccgcagcccc tgcttccaat gtgctgggtc agccggggca gtgcccattg 1080
gaatctggca aggtgtttta cagtgtgggc ttgaaagtcc aaacaaaaaa aaaaa 1135

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<210> 1126

<211> 446

<212> DNA

<213> Homo sapiens

<220>

723

<221> misc feature
 <222> (435)
 <223> n equals a,t,g, or c

<400> 1126
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 agacaggagg aaataattca aatcagggtt ctgaaactga tgaaaaagaa gacctgctgc 120
 atgaaaaccg cttgatgcaa gatgaaattg ccagggtcag gctggaaaaa gacacaataa 180
 aaaaccaaaa cctggaaaag aaatacttaa aagactttga aattgtgaaa agaaagcatg 240
 aagaccttca aaagggtcta aaacgggaat ggggaaacat tagcaaaaac gatagcctgt 300
 tatagtggac agcttgctgc tctgacagwt gaaaacacaa cgctccgttc cmaactggag 360
 aagcaaagag agagcaggca agactggraa cagaatgcat cctaccttgt aggctgatgc 420
 tgttcgttgt gttcnggttc aagtca 446

<210> 1127
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 1127
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 agactggaac catgtccact aaaataaacc taagcagatg ttgtagacct agccccacag 120
 gactgcattt agctgcttca gtgacacttt gatgaaagta tggagaagtg gagacattat 180
 agataaaata tatcaattcc cagagaaaaac tcttgactta aaaacttaac tgtagtaaat 240
 atatcttttt cagggtgatga attatttttt taaaaaagggt tacatatagg aattctgcag 300
 tataatttgg aggctattag tgctatatta atggaaatta attatttttt aagtaagtcc 360
 aaaaaataat ctagaaagta agtttccaga gcaaactctga cctagcattt ggtatgctag 420
 gctctgcttt tcatgatttt gaaataaatc ataattagac ttaacaatat ggagaaaata 480
 aacttgattt tttaagtgtt ctgttggctt attttctgtt tcatccaact caataattct 540
 gataaataaa tttggttcta gtttaaaaaa aaa 573

<210> 1128
 <211> 2229
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (872)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1968)
 <223> n equals a,t,g, or c

<400> 1128
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 ggctgctggc ctccgggtgc ggggtggggg caggctccga cctggggcgt cctggcagcg 180
 cgagccgcgg gatgggggcc cgggccgcgg aggaggcgcc gctgctgtgt cccttggtgg 240

724

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agagggcgct gccggccctg cgcgggtttcc agccaggaag cttcggaag cctggacgtc 300
tgctcactgg agatgacacg tgcgtggggg gttggcattc ttgttattta acacgggaag 360
gaggtgactt cgctgtgat ggacttccag tgtgagcact ggccagagt accaggctga 420
ccagcaccag ccctgatcca gatgcagagg ccaggatgtg ggcccagccc tgtgccagga 480
ggctggctgg aataaagggg tgggcaggct ggcattgggg cagccgctgc ccctgcctgg 540
gtgttgctgt gtattcctgc cggccagggg cactgccag gaccacgcct cccttttcat 600
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tgtttttgaa ctgcctggaa cctaagaccc tgaattcttt tccccccaa ggggaaaatc 720
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cagcagggtg caccgaggc caccgtgcgc cgttctctct cgtgccgaat tctgcagcc 2160
cgggggatcc actagttcta gagcgccgc caccgggtg gagcaccagc tttgttcctt 2220
tagtgagct 2229

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<210> 1129

<211> 949

<212> DNA

<213> Homo sapiens

<400> 1129

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agctaccacc tcaagctttc aaccacattg ccaagttatg cagccttaa cgacttgctc 60
tctatcgaac aaaagtagag attgaagact atgatgtgat agctagcatg ataggagcca 120
agtgtaaaaa actccggacc ctggatctgt ggagatgtaa gaatattact gagaatggaa 180
tagcagaact ggcttctggg tgtccactac tggaggagt tgacctggc tggtgccaac 240
tctgcagaca scaccgggtg ttcaccagac tggcacacca gctcccaaac ttgcaaaaac 300
tctttcttac agctaataga tctgtgtgtg acacagacat tgatgaattg gcatgtaatt 360
gtaccagggt acagcasctg gacatattak gaacaagaat ggtaagtccg gcatccttaa 420
gaaaactcct ggaatcttgt aaagatcttt ctttacttga tgtgtccttc tgttcgcaga 480
ttgataacag agctgtgcta gaactgaatg caagctttcc aaaagtgttc ataaaaaaga 540
gctttactca gtgacttaat atatgttctg tattaaaatt aatgtgcttt gttgggggtt 600

```

725

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aat t t t t g g g a   t t g g t t t t g g   g t t t t g t t t t   t a g t t g t t t t   a a t g g t a a g a   a t t a a g a c a t   660
t t g t a g a t t t   t a a a g a a a a a   t a t g a a a t t g   t c c a t t a a a t   c a a g t a a a a a   t g t g c a c a a a   720
t g t t t t c a t a   a a a t a c t g c a   a g c a c t t t c t c   t t c a a g a a t a   t g a g t g g a t a   t t a t t t t t a c   780
c t t a t g t t a a   t c a g t g a t a t   g c t t t a g t c a   a t a a t a t g a t   t g a t a a a a g a   a t a a c a t g g a   840
a t c a t g c t a a   c t t a t t t t t c a   a a g g a a c a c t   g a g c a a t a a a   g t a t c g t g g c   a t t t a t g c a a   900
a a a a a a a a g t   t a a t t t t t t a   c a c c t t c a t g   t a a g g a t g t c   t t a t t a a a g   949
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<210> 1130

<211> 1418

<212> DNA

<213> Homo sapiens

<400> 1130

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a g t c c a g g g g   a g a a g a c a g a   a g a a g t a g a g   a g g c a g g g c c   t g g t g a c a g t   a t c a g t g a g t   120
g c c a t a c a g a   a t t g t g t a t t   c a c c a g c a t c   a t g a a a c a g t   t g t g g t c t t t   t g a g t t g a t c   180
t t g g c a g a g t   a a a g g g a c g t   g t c c t g g a g c   c a t t c c t g a a   t c t c c c c t t c   t t t g t g a c a g   240
c t c c t c c c a c   c c c c c a a a a a   a a t a a a a a a a   c c a c a a a a a a   c a a a a a a a c a   a a a c t a a g g c   300
a c t t c a c t t a   g a g a c t g g a g   t c c t g c t t a t   a a t c a t g c a t   a t a a c c t t t a   c t t t g a t g g a   360
t c t g g c c a g a   g g g g t g t t g g   a g c c c a g c c c   a c c c a c a t a c   c a g t c a a g c t   c t t a g g g g a g   420
c a g a a g a a a a   g c a g g a a g a a   t t t a a a t g t t   t a a t t t t t t t   t t t a a a t t g a   c t t t t c t a g t   480
t a t t a a a a g t   t g c t t g t t t c   a g c a g t g a t a   t t g t a t a a a g   a a c a t c t t g t   a a g a t a c t c c   540
t g a c a t c t t g   c t t t a g c a c a   t g t a c a g t a c   a g t t t c t a t g   a t a a t g t g t t   t g c t c t a a c t   600
t c c c t g g c t t   c t c c t t c a g c   c c a t c c a c t c   t c c t c t a g a g   c a g t t g g g t t   g g a g g c t c a t   660
t g a g g c a a g c   a g c a a c a t t g   g a g g g g g a g c   a g g g c a g t g c   t g t g t c t g c t   g c c t c c c a t g   720
c c c g t t c t g a   c c t c a g c c t t   g g a a c t c c t c   a a g a a c c t g a   a g a t t c c a g t   g g t c a g t g t c   780
g g t g g g g g g t   g g g a g g a g a g   a g c g g c a g a g   a a g c t c t g a g   a g c c c c t t c c   c c c a c a a c a a   840
a t c t a g c t c t   a g t t g t t a t a   t t t a g g c a a a   a c t t t g t a g t   c t t c t t t c c c   t t t t a t g a t g   900
g a t t t t g a t a   a a a g t a c a a a   a c a g g g t t t t   t c t t t t t t a t   c a c c t t t g a a   t t t g g a a a t t   960
t t g a g c a c c c   a a g c t c t t c t   g t a c c t a t t t   a a a g t c c a c c   a a g g g g a c t g   c a g c t c c t a g   1020
a a c a t g a g a a   t c a a g c c t c t   t a a t t t t a a a   c t g c g g a a t g   t g g c c t c t g c   t t c c t c c g t c   1080
c t c c t g c c c a   a g g a c g a c g a   g g a t t g c t c c   a g g g c t g c t g   g g t a g t t t a c   c g t c c c t t c t   1140
a t a g g c a t g g   a g t t g g c a c t   g a c a t c a c a g   c t t c a t a a c c   c c a c c a c c g c   c a g c t t c c c c   1200
t g c c t c c t a c   a t c c a g t c t g   t t c t t g t t c a   t a g t g a g a a t   c c t g t g t t c c   c a c t t c a g t g   1260
a c a c c t g a a t   t g t t t g t t g t   t g t t t t t t t t   t t t t a t t g t c   t t c a a a g a g g   a a g g g c c c c a   1320
t t a a a g g g t g   a a c t t g t a a t   a a a t t g g a a t   t t c a a a t a a a   c c t c a t g t a c   t t g t g t t t a t   1380
a a a g a a r a a a   a a a a a a a a a a   a a a a a a a a a a   a a a a a a a a   1418
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<210> 1131

<211> 1662

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1656)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1661)

726

<223> n equals a,t,g, or c

<400> 1131

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cttattactg cacagagcca ggatgtggga gggcatttgc cagtgcacaa aat,tataaaa 180
accatgtgag gatacacaca ggagaaaagc catatgtttg tacagtccct ggggtgtgaca 240
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catctctgga agaagccatc agaatagcgt ctagaatcca acaaggagaa acgccagggt 960
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tgtacacatt tttatgcgag agtgagaaac attttattct tgacactttt gtgtatataa 1140
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ttatattggc attacattga attatgtaca aaattataaa atttggttat ttaaaattaa 1620
aaagttaaat ccaaaaaaaaa aaaaaaaaaa aaaaangggg ng 1662

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<210> 1132

<211> 387

<212> DNA

<213> Homo sapiens

<400> 1132

```

ggcacgaggt ttttaaagat agggctcctgc catgttgccc aggettgact tgaactccta 60
ggccaagtga tcttcccatc tcagcctcct gagtagctgc gactacagga accagccacc 120
acacacccat gtccaccac cttagggtta atctttgtta ctagccctca ctactcagaa 180
ttggtgagac ctctccattt ctgcttact cagcttacgt ggtttgctca cactgacacc 240
aacaacacc tgtcaatccc tatgtccctc ctgtcttcca aaaataccta gaaattgctg 300
ctctattgac ggtagtattt cttgttttct agtgttgcta ttatttgtct attgtactcg 360
gttttgcatt ttagtcacct gaatgtc 387

```

<210> 1133

<211> 82

<212> DNA

<213> Homo sapiens

727

<400> 1133

tgcagccacg cgtccgggtc tagatcgcgga gcggccgccc tttttttttt ttttaaactg 60
ttctgcactg gcaaaaaaaaa aa 82

<210> 1134

<211> 806

<212> DNA

<213> Homo sapiens

<400> 1134

ggagaccaga gtgggaggaa ggcggggaggt ccaggttccg ccccgaggcc gacttctctc 60
tggtcggcgg ctgcagcggg gtgagcggcg gcagcggccg gggatcctgg agccatgggg 120
cgcgcgcgcg acgccatcct ggatgcgctg gagaacctga ccgccgagga gctcaagaag 180
ttcaagctga agctgctgtc ggtgccgctg cgcgagggct acgggcgcat cccgcggggc 240
gcgctgctgt ccatggacgc cttggacctc accgacaagc tggtcagctt ctacctggag 300
acctacggcg ccgagctcac cgctaactgt ctgcgcgaca tgggcctgca ggagatggcc 360
gggcagctgc aggcggccac gcaccagggc tctggagccg cgccagctgg gatccaggcc 420
cctcctcagt cggcagccaa gccaggcctg cactttatag accagcaccg ggctgcgctt 480
atcgcgaggg tcacaaactg tgagtggctg ctggatgctc tgtacgggaa ggtcctgacg 540
gatgagcagt accaggcagt gcgggcccag cccaccaacc caagcaagat gcggaagctc 600
ttcagtttca caccagcctg gaactggacc tgcaaggact tgctcctyca ggccctaagg 660
gagtcccagt cctacctggt ggaggacctk gagcggagct gaggctcctt cccagcaaca 720
ctccggtcac ccctggcaat cccaccaaat catcctgaat ctgatctttt tatacacaat 780
atacgaaaag ccagcttgaa aaaaaa 806

<210> 1135

<211> 639

<212> DNA

<213> Homo sapiens

<400> 1135

gagctgaagc tgctgtcggg gccgctgcgc gagggtctacg ggcgcgcgcg acgccatcct 60
ggatgcgctg gagaacctga ccgccgagga gctcaagaag ttcaagctgg tcagcttcta 120
cctggagacc tacggcgccg agctcaccgc taactgtctg cgcgacatgg gcctgcagga 180
gatggccggg cagctgcagg cggccacgca ccagggtctt ggagccgcgc cagctgggat 240
ccaggccccct cctcagtcgg cagccaagcc aggcctgcac tttatagacc agcaccgggc 300
tgcgcttata gcgaggggtca caaacgttga gtggctgctg gatgctctgt acgggaagggt 360
cctgacggat gagcagtacc aggcagtgcg gccgagccca ccaacccaag caagatgcgg 420
aagctcttca gtttcacacc agcctggaac tggacctgca aggacttget cctccaggcc 480
ctaaggaggt cccagtccta cctggtggag gacctggagc ggagctgagg ctccctccca 540
gcaacactcc ggtcagccct ggcaatccca ccaaatcatc ctgaatctga tctttttata 600
cacaatatat gaaaagccag cttgaaaaaa aaaaaaaaaa 639

<210> 1136

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (427)

728

<223> n equals a,t,g, or c

<400> 1136

```

gtccggaatt cccgggtcga cccacgcgtc ccaaaaaaaaa gcaaatgctg aaatcctatt 60
ggcaaagtaa actgaaattg gctgctatat tttatataat cttttctgca aatcccattt 120
tttgaatact aatatttgac atggttaatt cttattaatt tgttggaatt gtttattgtt 180
aataatgcaa atagataatt ttttaattatc cacaagtaac atttcaactgt taatgggttg 240
aaataggtga taagcaaacc aatttgaaat aaaatataaa catgtgccat tgtattataa 300
cactatacac tttcttgaca gttaaattta aaaaaaaatt ttttttggtg gcatgtattg 360
tatatgttta tagtatatgt agtaaataaa aatatggcca aaaaaaaaaa aaaaaaatta 420
ctgcggnccg acaaggaat tc 442

```

<210> 1137

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (662)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (668)

<223> n equals a,t,g, or c

<400> 1137

```

aacaaatggt gtcacttgaa ataccaaaac aacattttctg agcgttggtg agggactggc 60
aaagcaatca gctactataa caaatcagta grrataaccc tcccacacca gatatgcatg 120
cagaaggaat ggagtattat agagacttga tacaatggac atatgcacat ggaggtacaa 180
aacacacagt cttaaatacaa atgaattcca tcagatttac tatacggaac atcagtagtg 240
acagattgca cttcttactt aataacagca aacttaattt ctgaggggaa aaaaatggcg 300
aagtcttatc ccaaacaat agcaagagag gtatcatcaa gagctaaaat tttctttggc 360
atggtaaagg gggaaattga gtttaccac ttatttacat gacatttctc tatattgggtg 420
agtaatgcaa tgccattttg ttacataaag ttgtttgatg ttttttaata tgccttcata 480
taaatatttt attcaatatg ttgtatttgt gaatttaaca aatgatatta aacacaaact 540
acaatgcaga caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggnggc cnttttaag 660
gntccaantt tac 673

```

729

<210> 1138
<211> 558
<212> DNA
<213> Homo sapiens

<400> 1138
gcccacgcgt cccgatcttcg agctgaagaa attgatccag tttactttga tcttcacct 60
ggtcagggcc atacaaaaacc tgaatactat taccctaatt tccttccatc ccctttcagc 120
tcctgggacc tacgagatat ggccctgctt ctgaacgcag agaacaaaac ggaagccgtg 180
ccccgagtgg gaggacttct tgggaagtat atcgatagac ttattcagct tgagtggctg 240
caagtccaga ctgtacagtg tgaaaaagca aaggggggca aagcaaggcc cccactgcc 300
cctgggacct caggggcact gaaaagccct gggagaagta agctaattgc tagtgctctg 360
tccaagccac tacctcacca ggaaggggct tcaaagtcag gcccttcccg aaagaaagct 420
tttcaccatg aagaaatcca cccatcacat tatgcatttg agacttcccc tagaccatt 480
gatgtgcttg gtggtaccag gttttgttct cagaggcaaa cccttgaaat gaggacagaa 540
gaaaagaaaa aaaaaaaaaa 558

<210> 1139
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<400> 1139
gatcatatgg taagcgtacg tttagtttag tttttttttt tctttttttt ttttktttnc 60
ygggggttaga agcyattcga aaagtccagt ttcygtccca gtgtagcaaa atgtagttcc 120
tcgggtgttt ttctttaaat gctttataat tttacactac ctttttaata tacaaacctc 180
attcttcatt ggataacttg aaggctttga tttcttttaa aatttaaatt ttagtrtgta 240
tattactttg acagttccct catctttgag atgcactgat cactgtgctt gaaaaagaca 300
atactgaaga ttgtactatg aagtttattg aataattttc ataaattatt tatccaaatg 360
agagattttt agatttttgt attctgctta gttttaaaaa aaaaaaatag tagtttaaaa 420
gagaggctag taagtttgat gctattcttg ccaaacaac tcagccaaaa tctttaaagt 480
aacaagaggg aaaaggatga ctaatcggtc tgcttctgag tacattttcc aaaacggttg 540
aaagaaactt ctgaattgaa atcttgaatg tattgaatct gtcaaggtag acagcggtag 600
ctttgtaaat gttcattact ttattttaatc aggtgataag tgggtgaatg tagcagagct 660
taagaataga actcaattat cactttttgt gaacaagttg gaattgtcat gttactgtgt 720
aattgatttg ctttacaatg aacaataaat ttaataaaat aaaaaaaaaa aaaaaaaggg 780
cggccgctc 789

<210> 1140
<211> 830
<212> DNA
<213> Homo sapiens

<400> 1140
ggaacacagt ttgtaagttc acatttacta taatgggcca aaaccataac ctgccagttt 60
gcaatacatc ttgatctttt aatattctta tctgatattg tgtaattcaa ttcctaaact 120

730

```

gatagttacc ttgaattttg cgaaaagggt tgggtgggtt tttttaaaca tgaaattgag 180
ggatctcacc tgggcgaaca agaagagaaa gctgtgaatt gtactgtatc atgtacattc 240
ctgatttaac actttacaga acatttttatt cagatatcaa tttgttacat aaacatttca 300
gcaatgatac aaagataact gataaaatat attacattca atgagggttt ctttacaagt 360
gctctacttg aggtctgtgt cttaaagatg gcatgacacc taagtacaag acatcaactg 420
aatgaggatt ttaaaaaatg gtatataaagc ataggacaag ggctatgttt gtttgttttt 480
caaaagtgtt ttgaagataa cagcctttag gtttgagtta tttcactttt cataattttt 540
aagtagctta tatataatgg tggtagcata ggattttctt ttttcaaagt actgtcggca 600
gaaacagtgg gcaactgact accttttgag ttttagcaga gaattattta tttctttaca 660
atgcactttc taaccatttg tagctatatt agcattatct tttaaaaaag acatgctttt 720
gtatttaaat attgtaggat ttaagtgtct ttctcaaaat agcytattcc tttctgaaag 780
aaaatgaggg aaatactctg aattattagg agacttaaac ccaatattta 830

```

<210> 1141

<211> 1110

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1108)

<223> n equals a,t,g, or c

<400> 1141

```

catttaatac tggagtttagc cacatgtgat tagtggctat ggtattggac agggaaggta 60
cagaataactt ccatcaacat agaaaattct atcagtctag ctctaggggc agatagtcct 120
tccactgact tgggcaagtc actctacaaa tggcatctac ctcacatggt tatgggtgaga 180
attcagcgta tgtatgtaca tgcaggcaca caatatgcac acagacacat aacatagtag 240
accttttctt gaaaagcctg acacatggag ctcaaacatg agtgccaccc acccctgggc 300
agcaccaaga tggctctagt ctgggtgcct ttgtctcacc cccatgcctt tgctcggagt 360
gtgctcctca tttttctgcc actttgaccc tgtctctgat ttggtcctgt ctgacatcac 420
tgctatatgc tttgctcttc tcaatttctt ctgcctcat gccagcagga gtcatgccag 480
agatcatatc tgagaaagca agacaatttt gtgtgtgtgt ctgtgcccac agaggagtgc 540
tgggtgtgtt gatatagttg tagattgggt gtgtttacac agttgtatat attgacaccc 600
ttgagtgtta tgacttcttt tgggggtggt cgccttttaa atcataactt ttaatgggat 660
tccatttttag tctttgtgaa gacataaggt tgttggcagg catctgtccc tgggagcacc 720
caagcagaaa agactaagac tccctttagt acagatcact ggccgccact gaagtgtgtc 780
tgcatggcac cacagggctg gaagaccctt gaaggcagga attcaaggaa atgtatgatg 840
aatttttgga ttgccatcaa aagcagaaca ggcattgaaa acttgggtga gtgggcgaga 900
caacctcttc accacagcag agttccatcc atgcctggat aatgagggag ggatttgtgt 960
ccactgcagt ggggaaccat gaaggacaca tcaagggtgt ggttggcctg tgggtgctctt 1020
tggagggaatg aataaaaaatg aatagaaatc ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaggnntt 1110

```

<210> 1142

<211> 406

731

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<400> 1142

```

gttaaaaatg gaaagcagaa agtaactgca gtgatgaaca ttttggtcca aattccttgtt 60
ttaaatctta cacctgaaag taaaatattg ggatcacttt tccctgtcta aactccagga 120
tacagtatcc aatttatcca aacagaactg tgggtgtcaat gtgtaattaa ttgtgtaaaa 180
tagccttccc aagtttcttt ttccctggaa aaataaaaaa ggtaatagaa cttgtagttt 240
tatgtaaac ccattgtcatg aggaggtact agttccaagc aacaaactcc ttaatttgct 300
ctaatagata ggtatggttt aatctttcca ttgtgtcttt tcatttaatt ttcctgaagc 360
ttgcaggata gattgaaatg ttatagggtt gtttggantt aaccac 406

```

<210> 1143

<211> 421

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 1143

```

gcgtccttcc acgcgtccgg cgactgcagc gggtnccgtg caggtgaggg gcgcgcgcct 60
gcccagcttt gcagcccccg aacgcggcct cgcacagata cccagacaaa tggattctaa 120
aatttgaata gaagagcaaa gaaaatagga accaatttga aggactacaa ggtggactgc 180
ttgtcagct cagtatcaac acttatggag tcattgcagt tttcagtaga ggtgtacttc 240
tgagaagtgg cttcttgggt cttcatgcag ccattggatct ggatwaacca tctgtttggg 300
gtcattataa acagcggacc aggccattgt tgatcaactt gagcawgaag aaggtgaaaa 360
agaacccaag taagccccca gatctacggg caaggcatca cttggaccgg cgnctcanc 420
t 421

```

<210> 1144

<211> 266

<212> DNA

<213> Homo sapiens

732

<400> 1144

```

aaaagtgtag ttatcgtaac atcaccttga aacaactttg ttactgggat acattttaatt 60
aagcaactac catgaatgta gtcggtacct tgccttacgt gcttcagtat atatgttggt 120
cttggtttat gtacaggcta aatttgkaga ttgaatagca gaatattagt tctgwtctta 180
tagggcctac tgstgtattc agagttatga agctacgttt cttctgcgtt tggctgcacc 240
atgaaatcct aagaagacct aaaccc 266

```

<210> 1145

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<400> 1145

```

gcatnaaatg caagtataaa acatttccaaa ttaaaataga atatgcacat tgttcaaagg 60
caaaactctt accctactat atatatatta catccctcat tttttcccc tctaaaatgc 120
attggtattc aggattagaa tctgaatctt ttgctataaa gttgacatac atnggtttta 180
atcccttgaa agttcagtaa agacctaaaa ggaaaagcat cctaccacac cacactcatg 240
ttgtatgtgc aactattata gtggcttaga gacactagtt cgtgttcttc gtttctatat 300
tagtaaagat gttagaggaa attaactctgt ttgttgcatc agggtttaat gtgaccatgt 360
tgkataacta ttctgaaagg taagaagttt ttcactggag tacagtcact ggctgagaac 420
atttaagttt ttttttgaag catacacagt taacaactat tgcaggaaga actctgaatt 480
aaatttcagg cccagagttt tgattttaaac tccaaaccct tggaaaaaaa gactgctgga 540
aaatatgaaa gaacccttcg tttcttaacc cccacaagtc cttttattgc acttactttc 600
atgtatttga ggatgagagg agctttaaat caacaataat tactaagga ataatgcaag 660
gtggtctatt gtaacatttt atgatattat tgccttgga ataaaagata ctgaacaatg 720
taaaa 725

```

<210> 1146

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (396)

<223> n equals a,t,g, or c

<400> 1146

```

cccacgcgtc cgccacgcg tccggttcaa aattcaacag tgtatgtcat tgccttctct 60
atagggtacc agtcgtcctt cacactatca tgttttatgg gatgataact gctttactgc 120

```

733

```

agatgaactt cagctgctaa cttaccagct ctgccacact tacgtacgct gtacacgata 180
tgttttctata cctgcaccag cgtattatgc tcacctggta gcatttagag ccagatatca 240
tcttgtggac aaagaacatg acaggtaata taaaagcata acaggttctc acccaaatec 300
cmatattgtc tgcattggtag gattttcaak ttccacaagc tattaacgga rctmgygat 360
ccatgtkaaa aatgatgama gaactgactg cccaangatt cctatttgaa aatatattgg 420
tctaggctca tttag                                     435

```

<210> 1147

<211> 533

<212> DNA

<213> Homo sapiens

<400> 1147

```

gtgttaatgt gtgtgtatgt gctttggttg taggaaaact tgaaaattcc aaaatcctta 60
ttttcctatt tgagaggctg gttcagcagg gtgtgtgtgt gtgtgtgtgt gtgtgtgtat 120
gaatgggtata tttattacat ttttttgaaa gagaattagt gtgttatgtg gataatgtta 180
tatacagcca aagtggatgt ttctrtrtgg caaggaaggt aggatttctg aaactcaggc 240
cttaaccaat aggttggaag acaagaccaa ttgaagagtt aggaaatgtg agtttttgtt 300
acttctgtta ttccagtctt ggtttcattg tctcattctt tttttttaa atcttgtgcc 360
taaaagtttt tttgcttaat tatgaagtag acatgcatgt ttacatttat gtaaaatatt 420
tgctgtgtaa agtatttttt gtttattctc ttaaaagatc actatattta aataaaagtg 480
aaggctcagca acmcaaarar aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 533

```

<210> 1148

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<400> 1148

```

tgacatggta gcgcacgcct gtagtcccag ctactcanga ggctaagggtg ggaggatcac 60
ttgagcctgg gaggcagagg ttgcagtaag ctgagtaagc caagatcatg ctattgcact 120
ctagcctgga tgacagagtg agaccttgct tcaatgaaaa agcagggggc actkaggagg 180
ggaaccaaatt gccctatcct ccagttctca gcatatagaa gggagctctc tcactctgcta 240
gccactcctg cctcactgtg ccatgctttc tgtaatgcac tctgggtcca gggactgctt 300
ggcaggagng tgggaagaac aagaagttta gggccttccc agtttcttag ggctgtctg 360
gagaggggaac tagcgtttac tgagttttta cgatgt 396

```

<210> 1149

<211> 540

<212> DNA

<213> Homo sapiens

734

<220>
 <221> misc feature
 <222> (136)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (445)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (474)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (506)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (515)
 <223> n equals a,t,g, or c

<400> 1149
 gagaggaaaa ggaatgaaga aaaatgaata gatcttcaga tacctgtgag acaccctcaa 60
 gtgtgccaat gtatacctaa cgggagtcctc agaagacagg agagaaaaaa agaaagaaat 120
 aaaaagaata tttganttta aaattgcttg aaaatgtctc aaatttgatg aaaaatatta 180
 ctctgcacat tcaaccctatg aactataagt tgtataaaat caaaaagtgt cacaccaagg 240
 cgtgtcatag ccaaactgtc aaaagccaaa gacacagaat cttgaaagca gtgagagcaa 300
 agcagacaag ggatccccaa taggattaac agcagatttc tcatccagaa gccatgcaag 360
 cccagaaagg ctatgggaga catactccaa aatgctgaaa taaaaactgt ccaacaaaca 420
 tttccccatc cccagcaaaa atccnaaaac aaaggaaaat cttgttgcat gttnaacctg 480
 aataaaattg gtttccccgc cggttngttt ggatnaaatt ttccccccct taatgttcca 540

<210> 1150
 <211> 1481
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<400> 1150
 agaggcttgg cttngaaaca tccggggaga gttgggcagg ctgctcttta tggatgtggc 60
 tgctgggctg aaaatactgg agctcataac ccctactcca cagctgtgag tacctcagga 120
 tgtggagagc atcttgtgcg caccatactg gctagagaat gttcacatgc tttaacaagct 180

735

```

gaggatgctc accaagccct gttgggagact atgcaaaaaca agttttatcag ttcacctttc 240
cttgccagtg aagatggcgt gcttggcgga gtgattgtcc tccgttcatg cagatgttct 300
gccgagcctg actcctccca aaataagcag acacttctag tggaatttct gtggagccac 360
acgacggaga gcatgtgtgt cggatatatg tcagcccagg atgggaaagc caagactcac 420
atttcaagac ttcctcctgg tgcggtggca ggacagtctg tggcaatcga aggtgggggtg 480
tgccgcctgg agagcccagt gaactgaccc ttcaggctga gtgtgaagcg tctcagaggc 540
atttcagaac ctgagctttt ggggggtttt aactgaagtt ggttgtttta tctttcttgt 600
tttataattc ctattgcaac ctctgtcact gctcgagaca caagtgctgc tgtagttagc 660
gcttagtgac acgcgggcct ttggtgggtg agcgggactg tgtgtgagtg tgtgcgcgta 720
tgtgcgcaca tatgtgtatg tgtggagtat gtgtgtttgc ttctccgtgg atgaaataga 780
aactcctcat tgtgtgacca ggaatggtta aatcatcttt acaaaatgtg tgctttaact 840
gtttacaagt aaaacctaaa gttgcaggaa acatttttta tttcgtaaag aggtaccaac 900
tgtcgtgat gtgatatgtc agaactgaag agtaaatacta cttgtttaaa tgacttgaca 960
gtggtagtgc tccatttaat aacagtaata agtaataaag tgtttttatt tggttaacca 1020
gtttaagtgg atcctgtggg aacttaaaact gktgktctca tcccytatat ggggcatttt 1080
tctttaacaa agaatggttt cagtgaacaa atctagcaga gaattaatgt cagaaccttt 1140
ttaaataata gtctgattga tacagtttgt acttatttca tcaagctttt ctaagcttaa 1200
atattgcata gcttcgagct gtatggacta tattatgaaa gaatatgtaa agagaacata 1260
cagtaatgca cagtccttaa tttgtgtata atggaaagtt atttacaata taacactgta 1320
aataagaaaag caaagtttat gggaaaattc aatattatct ttgtttttgt ttaaataatat 1380
ttttaagata aaggcmcaaa aataaaaagaa gcgtattact gggatatagta tgtgactcct 1440
cttctcagac taataaatta tcttttgaat ccttaaaaaa a 1481

```

<210> 1151

<211> 1092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1083)

<223> n equals a,t,g, or c

<400> 1151

```

ctttaatttt gagtttaaac ccaagtttat tggcagactc ccttttgacc tccctttgcc 60
tccccatctg gtgctttctt gcacttacac cccaggggcc tgtggtgggg ctgcaggggg 120
aagctgtgca cctgagatga ggctggaacg ggaattggcc tctctgctcc cttcttcagt 180
aagcaaggag ccccgccctt caggcccagc ctctgnmaag aggtggtgga atccttgtgc 240
cgggtagtag aggaggataa gggcaaaacc agggccaggc cagtgcctgc ttggtctgga 300
tgggacactg tcagagtttg gccacagcct gtcccttaet tcatccacac ctatgaagct 360
attccctaaa taaggcattt cccaagttag tcgctaccta atcagccttg agaagaatcc 420
tttctcttct tttgatagtg ggtcggggga ttcttcagga atggtttgga gctgggagtg 480
ggtaggggga ttttaaattg tccatatggg agcccccagg gaactggatg ggctgcagtg 540
aggtgggggc ggggtgggcag ggaatgggag aggggaagtc ttggcagggg aatccctttt 600
ggccacacag tttacaaacc cagtatcatg tctgtctgtg tgtctctcaa ggtgagagtc 660
tgatttttat accaaagagg aaatgatttt ttttcatatt ttgtttgtct atattatata 720

```

736

```

aatatatata tacagttata tatatatata tattattttt tggttctctc tcgtttttta 780
gggaggggaag aaagtaccaa gttgcattga gctgtaatta aggaacatta taatttatga 840
cacattttcta tacttgcaaa aattatatca ttttatggat ataagagaaa aatgcctttt 900
tataaaattt caattttctga raagtgtgta atttgtctct tttctgatgt ttaaccaaga 960
ctgggtggtga aagtaaagac agaaactgtc tcttaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aangggcggc cg 1092

```

<210> 1152

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<400> 1152

```

gcggcagtga gcattctggg tctttgatga tggatgagtc ttcacttgta aatttaaagc 60
catatgtatt aacttagttt ccttccaggc atttagtatt agtgaatata acatacggct 120
ttataatgct ccaataacag atgcctagtt gcactttgat ttaatatatg ctgggagaaa 180
agatatatga gaatttcact ataatttttt gcctagataa taggtcagaa gggttctatc 240
ccacctggaa ggtaaaagga ttgggtctta ctgatttctt gnacttctct ctggatttta 300
tgaagtctat gctatctttt tcccagaagc attaagtttg aagactcaat caccaagtgc 360
aatcaaagct accttctctc cccccaaat taaatagaca tktttaaaca cacatacaca 420
tttcaagatc aacagarttc ccttttgagc atggaaatat agccattgct aaattacgtt 480
actggactga actccaggta ttaatttcag tgggaaaatt aagaaatggt agga 534

```

<210> 1153

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<400> 1153

```

gntttcaccc ccgccgcctc tacaagatgc nggggccact taaactacgc ggaggacgcc 60

```

737

```

cagctcatcg cccaggccat tggccaggcc ttcgccgccg cctacagcca gttcctacgg 120
gaaagcggta ttgaccccag ccagggtgggc gtgcacccga gcccaggcgc ctgccacctc 180
cataatgggg acctggacca cttctccaac agtgacaatg ccgggagggtg cacctcgaga 240
agcggcgagg ggagggcctg ggcgtggccc tgggtggagtc gggctggggc tccctgctgc 300
ccacagccgt catcgccaac ctgctgcacg gggggcctgy tgagcgytcg ggggcctca 360
gcatcgggga ccccttgacc ggcataaag gggaccagcc t 401

```

<210> 1154

<211> 1107

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1092)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1101)

<223> n equals a,t,g, or c

<400> 1154

```

ctgacctcgg gtgatctgcc tgccttggcc tcccaaagtg ctgggattgc aggtgcaggc 60
caccacaccc ggccttgggc cactgttttc aaagtgaatt gtttgttgta tcgagtcctt 120
aagtatggat atatatgtga ccctaattaa gaactaccag attggatcaa ctaatcatgt 180
cagcaatgta aataacttta tttttcatat tcaaaaataaa aactttcttt tatttctggc 240
ccctttataa ccagcatctt tttgctttta aaaatgacct ggctttgtat ttttttagtc 300
ttaaacataa taaaaatatt tttgttctaa tttgctttca tgagtgaaga ttattgacat 360
cgttggtaaa ttctagratt ttgattttgt tttttaattt gaagaaaatc tttgctatta 420
ttattttttc caagtggctt ggcattttta gaattagtgc taataacgta acttctaaat 480
ttgtcataat tggcatgttt aatagcatat caaaaaacat tttaagcctg tggattcata 540
gacaaagcaa tgagaaacat tagtaaaata taaatggata ttcctgatgc atttaggaag 600
ctctcaattg tctcttgcac agttcaagga atgttttctg aattttttta atgtttttt 660
tttttttgaa agaggaaaac atacattttt aaatgtgatt atctaatttt tacaacactg 720
ggctattagg aataactttt taaaaattac tgttctgtat aaatatttga aattcaagta 780
cagaaaatat ctgaaacaaa aagcattggt gyttggccat gatacaagtg cactgtggca 840
gtgccgcttg ctcaggaccc agccctgcag cccttctgtg tgtgtccct cgtaaagttc 900
atttgctggt attacacaca caggccttcc tgtctggtcg ttagaaaagc cgggcttcca 960
aagcactggt gaacacagga ttctgttggt agtgtggatg ttcaatgagt tgtattttta 1020
atatcaaaga ttattaaata aagataatgt ttgcttttct aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa ananaaaaaa naaaaaa 1107

```

<210> 1155

<211> 619

<212> DNA

738

<213> Homo sapiens

<220>

<221> misc feature

<222> (563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (615)

<223> n equals a,t,g, or c

<400> 1155

```

atctttccat atttactgag tttaaagtga tcattctcaga gagaaaagaa aaactaaata 60
trgaaaagtg catggcagaa gctgaaatga gctcaagcag tactaacctt ggaaccattc 120
tgggtaccca aaagaaaaat ttaaaatcaa gatgagtaaa aggagaatgg tctcaatatc 180
ctcaaaaatg cagtaagaga agtaattccc cactgaaaat gtctctcttt ctttctatgt 240
tataccctgg agtcctgggt gaggggtggg ggaatcagaa aagtaggttt acatttaaca 300
tttttcttaa ctacattcac ttcttaaaaa ggaacaagaa gtgtaaataa gtatgtatag 360
agtgagggat taagcatatt tgcattgggg actcgtgtat tatgctttta agtcaaaatt 420
aatattctca aattcgaatt tgatagctat tatttctaaa tctttttaat cctcaatttt 480
cctggtaacc ttctttcaag agtctccttc ttctaaaagt tgccaaaccc tttatattta 540
agctttttcc actcaggact canttagagt ggcaacaggg aaagggatgg tcccatntga 600
actttgccac tgacnaaac                                     619

```

<210> 1156

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78')

<223> n equals a,t,g, or c

<400> 1156

```

aattcggcac gagcaaagaa gctgctaaca gatggactga taacatattc gcaataaaat 60
cttgggctac tttatttntc tggcgtatth cttccacaac ttgcggatca cagtctttgt 120
ggaagaaata cgccaagcaa ataaagtagc caaagaagct gctaacagat ggactgataa 180
catattcgca ataaaatctt gggccaaaag aaaatttggg ttgaagaaa ataaaattga 240
tagaactttt ggaattccag aagactttga ctacatagac taaaatattc catggtggtg 300
aaggatgtac aagcttgtga atatgtaaat tttaaactat tatctaacta agtgactga 360
attgtcgttt gcctgtaaat gtgtttatca ttttattaat gttaaataaa gtgtaaaatg 420
cagatgttct tcaccctttt tggtagaaca aaagcaggat gataaccata tcccccagat 480
gctcatcaaa gtaggacact aaaaatccat ccattctcagt caaagtcgag c 531

```

739

<210> 1157

<211> 826

<212> DNA

<213> Homo sapiens

<400> 1157

```
gggtcgaccc acgcgtgtgg cactcggcgg tcgaaagggg agttcaagga gacggggggcg 60
acgcggctga gggcttctcg tcggggtcgg ggctgcagcc gtcatgccgg ggatagtgga 120
gctgcccact ctagaggagc tgaaagtaga tgagggtgaaa attagttctg ctgtgcttaa 180
agctgcggcc catcactatg gagctcaatg tgataagccc aacaaggart ttatgctctg 240
ccgctgggaa gagaaagatc cgaggcgggtg tttagaggaa ggcaaactgg tcaacaagtg 300
tgctttggac ttcttttaggc agataaaaacg tcactgtgca gaggctttta cagaatattg 360
gacttgcatt gattatactg gccagcagtt atttcgtcac tgtcgcaaac agcaggcaaa 420
gtttgacgag tgtgtgctgg acaaactggg ctgggtgctg cctgacctgg gagaactgtc 480
aaaggtcacc aaagtgaaaa cagatcgacc tttaccggag aatccctatc actcaagacc 540
aagaccggat cccagccctg agatcgaggg agatctgcag cctgccacac atggcagccg 600
cttttatattc tggaccaagt aaagatgggt ccgtggccca cactcgggtca tgtgctcaga 660
caacgactga tgaaaacgcc catgcgggtt gcactgactg atagtgtgtt ctttccggga 720
tcacaaacat taacaaaaaa gttaacttat gtgacttggc agttattcta taccatttcc 780
tgtccattaa aattttttaa ggaaaaaaa aaaaaaaa aaaaaa 826
```

<210> 1158

<211> 614

<212> DNA

<213> Homo sapiens

<400> 1158

```
ggcctcttca cgcgtttccc gagggccgggc gcacgaccct gcgggtcccc gcccacgaca 60
cccccggggc cggcgcaagt cagctgctgc tctcggaactg cccccagac cgcctgcgcc 120
gcttctctgc cacattgccg ctcaagctgg ctgcggcccc ggggtcccggc cggcactccg 180
cccgagcgca cgtgctgggc ccgcggccgc gatcttcgtc accatcagcc ctgtgcagcc 240
cgaggagcgg cggctcaggg cggccaccgc ggttcgggac actacgctgg tgaagcggcc 300
tgtggagccc caggctgggc cgagcctagc acagaagccc caaggtggcc cctgcctgtg 360
aagaggctga gcttgccctc caccaagcca cagctttctg aggaacaggc tgctgtgctg 420
agggccgtcc tgaaagccag agcatcttct tcaactgggag tgcaggaaca ggggaagtc 480
atctgctaaa gcgaatcctg ggctcactgc cccccacagg cactgtggcc actgccagca 540
ctggggtkgc agcctgccac atcgggggga ccaccctcca tgcttttgca ggtaagtagg 600
aaccctagg gctt 614
```

<210> 1159

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

740

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 1159

```

gcancagtga caccnaaccc tactaaaagg gaacaaaagc tggagctcca ccgcggtgca 60
gnccgctcta gaactagtgg atcccccggg ctgcaggaat tcggcacgag ngagagaact 120
agtttcgagt ttttyttttt wtttttttca tgggtaacaa cgtttattaa aatctggcca 180
ttttctacat ctcaaagagg agataaccca ccagaggctt aggtaacata attgtgttta 240
acgtaaatat acacagatac caataggcgg ttaagccatg ggacagggcc gcagatggag 300
actgctcaag gtcaaagggg tctccagctg ggaccctgca cctgggttcgt agccccctctg 360
cagacgcaca gtgcctcacg cctgctgcaa cctggaacct tgaggccttc atgtcagtgc 420
aggacaagag tcatgtctgt ccatagattg gggctggaaa ggactttctg ccactggagc 480
ttcgatttg agcatgcatc cccgccaaca gctgtgtctc cctttgaacc aagtctggtt 540
cctccaagca agcggkcggt cattccaaag agggcctgat cccagacagt taac 594

```

<210> 1160

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 1160

```

aggaactctg gtctccttgc ctagtgcttt tcaaaaactct gtgctacaca ggagtggatc 60
caggcctgaa ggtcatacaa ttctggggac tctctttaag aaaaagaatt ctaaaatata 120
ttacttttgc aaacattayg aaaatatact gccacattaa tatgttgcta gggccctgct 180
taggacctta agaaggagct catgtgagtc aggaccctga atgttaggcc tcgttagctc 240
tatggttcat atgcttcttg aaccaagtca cagggcactt cccagccaca ttgccaggca 300
acaggactaa actacctcca aagcaagcan tcttttcagt tttgactgan tgatgttga 359

```

<210> 1161

<211> 633

<212> DNA

741

<213> Homo sapiens

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (606)

<223> n equals a,t,g, or c

<400> 1161

```

ttcctttttt tttttctcca gatcccacgt ttcgctcttg ttgcccacag ctacttactt 60
cattcccat gggtcacgtc attcatccac attaaccaat ttcctcactc caagctcttt 120
tctagagata atctccagtc cctgtgcaga aactgtcatt gcactttctg ctgaaatggc 180
agtttcttct cagcaagggtg agattatgga atccagaatc ttttttcagg ggtcacatgc 240
ccatttcccc acttgcatga atgtcgacac tgcagccaca gttttggccg taaatgtgaa 300
tttggaagt aaccactgtt cccagggaaa tgtcccaatc agaagaagat tatctgggac 360
actgatactg acagggagat gggacattct gagggacccg gaggcagggt gccacctcct 420
caacttcctt gagggctgcc taggaatctg tttcctcttc attctggaat tattcttctt 480
ctttatgggc tgacaaaaaa catgggaacc ttcacaaagt ccactgttaa cagcttttwt 540
ttttgtggar gtkgarggac atggaggacg tttttaaggc caaagtttat ttngagttgg 600
ggacantttt gtggtttttt ttttttgagg aag 633

```

<210> 1162

<211> 1422

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1421)

<223> n equals a,t,g, or c

<400> 1162

```

aattcggctt tcgagcggcc gcccgggcag gtactttctt actgagccct ctattttctt 60
tattttaata atatttctcc ccacttgaga atcacttggt agttcttggg aggaattcag 120
ttgggcaatg ataactttta tgggcaaaaa cattctatta tagtgaacaa atgaaaataa 180
cagcgtattt tcaatatttt cttattcctt aaattccact cttttaacac tatgcttaac 240
cacttaatgt gatgaaatat tcctaaaagt taaatgacta ttaaagcata tattgttgca 300
tgtatatatt aagtagccga tactctaaat aaaaatacca ctgttacaga taaatggggc 360
ctttaaaaaat atgaaaaaca aacttgtgaa aatgtataaa agatgcatct gttgtttcaa 420
atggcactgt cttytthttca gtactacaaa aacagaataa ttttgaagtt ttagaataaa 480
tgtaatatat ttactataat tctaaatggt taaatgcttt tctaaaaatg caaaactatg 540
atgtytagtt gctttatttt acctctatgt gattattttt ctttaattgt attttttata 600
atcattatth ttctgaacca ttcttctggc ctcagaagta ggactgaatt ctactattgc 660
taggtgtgag aaagtgggtg tgagaacctt agagcagtg agatttgcta cctggctctg 720
gttttgagaa gtgccccctt gaaagttaaa agaatgtaga aaagatactc agtcttaatc 780
ctatgcaaaa aaaaaaaatc aagtaattgt tttcctatga ggaaaaataac catgagctgt 840
atcatgctac ttagctttta tgtaaatatt tcttatgtct cctctattaa gagtatttaa 900

```

742

```

aatcatatattt aaatatgaat ctattcatgc taacattatt tttcaaaaca tacatggaaa 960
tttagcccag attgtctaca tataagggtt ttatttgaat tgtaaaatat ttaaaagtat 1020
gaataaaata tatattatagg tatattatcag agatgattat tttgtgctac atacagggtg 1080
gctaatagagc tctagtgtta aactacctga ttaatttctt ataaagcagc ataaccttgg 1140
cttgattaag gaattctact ttcaaaaatt aatctgataa tagtaacaag gtatattata 1200
ctttcattac aatcaaatta tagaaattac ttgtgtaaaa gggcttcaag aatatatcca 1260
atTTTTaaat atTTTaatat atctcctatc tgataactta attcttctaa attaccactt 1320
gccattaagc tatTTcataa taaattctgt acagtttccc ccaaaaaaag rgrtttattt 1380
atgraatatt taaagkttcy aatgkgggtw tTTaataagg nt 1422

```

<210> 1163

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 1163

```

ggttatacct tggcgggacgt gntctgcaaa ctrggagaaw gatttgcact ayctaamcct 60
rracaccygg acttgggtctg gaaggattac tattaatgga gaaagcccaa aacatcggtc 120
atggcatact ttaacaccta tagctgatga taaacttttc ctatgtggtg gactaagtgc 180
agataatata ccattaagtg atgggttgat tcataatgtc acaacaaatt gttggaaaca 240
acttacacat ttacctaaaa caagacctag gttatggcac acagcctgtt tgggaaaaga 300
aatgaaata atgggtatttg gtgggagcaa agatgactta cttgccttgg atacagggtc 360
ctgtaatgat ttattgatct ttcaaacaca gccttattca ctactcaggt catgccttga 420
ctgcattggg aaaaattcta tcatgttaga aagtcagata tctttattac ctctaaact 480
tctgcaanaa gtactcaaaa aaaaaaaaaa aaa 513

```

<210> 1164

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

743

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (549)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (577)
<223> n equals a,t,g, or c

<400> 1164
gggtcccaagg gggtttacccg naatgtgaaa gcccganagt gaatgaaacc tcaaattgnc 60
ccctgtatgg cctnaagaag cccccaagtt ccccagtggt tcccaagtgg gcaagtgtaa 120
ttggaatggg gccccnccg atgccaaatg gagaatgcca aactgcccag gacaaatcca 180
gatgaagaaa gaaactgtga agtgcccttg tttaaattgg atcagttccc gctgtgcca 240
atggtcagtg cattggaaaag cacaagaagt gtgatacataa tgtggattgc agtgacaagt 300
cagatgaact ggattgttat ccgactgaag aaccagcacc acaggccacc aatacagttg 360
gttctgttat tggcgtaatt gtcaccattt ttgtgtctgg aactgtatac tttatctgcc 420
agaggatgtt gtgtccacgt atgaaggag atggggaaac tatgactaat gactatgtag 480
ttcatggacc agcttctgtg cctcttggtt atgtgccaca cccaagttct ttgtcaggat 540
ctcttncang aatgtctcga ggtaaatcaa tgatcan 577

<210> 1165
<211> 665
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

744

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<400> 1165

```
cttttttntt tttttttttt tttttttttt tttttttttt tttttttatg taaactatca 60
aatgtttatt taaatttcca tttaaaatat tttcaagtaa aatatgtaca aaaatggtta 120
taaaatgggt gaagcaacta gaagcgtgac aggtataata catataaata caacccaaaat 180
tcaattcaat gcaaagttga atgacatcat attgcacca aattttattcc atacaaaagc 240
acatgcatca agagtttcca taagatgaaa acaaacacac ttacttcata gcatcttacc 300
acttacttac acaaatagcc cataaacacc atctggcatt gtgattgcag taccagaact 360
ctccccagag ggrraactcat ttagctatag aagantccat tttatttcac atatcacatg 420
cttgtgcagg catcagtgyt aggaacccta agaaacaacg caatccacag atgaaagtct 480
ctctgcacca tttatatytt catagataaa tatcttagtt ctaatatgat tggaatgtgg 540
atgcagaaat aaaatgcagt tttgctcttt aagaatttta tcaatgtaag acattgtatt 600
aaatttgtat aaaatacaca caatcccctc tactaagttt catgatcaca gtgccagagt 660
gaagc 665
```

<210> 1166

<211> 1077

<212> DNA

<213> Homo sapiens

<400> 1166

```
acagaaagta acaaagagga atgagccagg agaacaaact aattccttta aataaataaa 60
waaaaaaaaat gcaaatgtcc ttcaccagta aagcaagcaa attttttaaaa tctctgtttt 120
tgaaatctac tcgtcaaaga gttttcagag gcaatgaaag gggaacagat ttttcattgt 180
aatagtggaa gttgtgtgat agttaggaga tatcaacatg catttttaaat cttttcctta 240
gatgaaagag atggccttttg gcagtgtgtt ctaaccagaa agaaaggatt tgtattactc 300
tccaaatcta ctgtactgtc agcttcactc cacctgagaa aaaagaaaaa aaaattgata 360
gctcaaatgc atgtaattca taaacactgc aaaggagagc cacttggtgt ctgcagtcct 420
catattaaca gtctgtcaca gaatgcagtt aaagtattga ttggcatatg gtaatagagc 480
aaccatagcc ttaacttaca gacctgtgaa ataaagggca ttttgacctc atacaattaa 540
ttttctggat aactcttaaa gagaagtcac tttaactgtt tttgctactc catatattgt 600
cattcaaaat atatttttaac ccaaaataag tttaaataatt tgtgcatgtt tgtgtgtgta 660
tatatgcata cactttttta tattaaaatt ttgaggctat acagccactg tgccctgtgg 720
aataaagcca tatatataaa tgttttatat gtatatgttt tatacatawa taaaacattt 780
catctaatat atatatgtgt gygtgagtat atgtgtgcat gtttagcaga tatttgtata 840
aaatataaac actctgttgt catatwggct atatgcgaaa ttgttaattt taaaataaacc 900
tcaggccaca gacttgtagt aatcatttga aggcctcacc tagtgteccc ttggtgacgt 960
atgcagcagc tcaaattaaa cttttgtgca ttgggttatg aataatcttt tcttccaaag 1020
atggcaaaaag cctcggtttg atttgatact aaagaataaa tttctctgac tttcaaa 1077
```

<210> 1167

<211> 1177

<212> DNA

<213> Homo sapiens

<400> 1167

745

```

ggcagagctg acgttcccc cagcttagac cctgagtcgt tttcccccg tttccggetg 60
aattaggttc ttctttctcca caggtgtgtg cagtggcctc agggatccgg aaagtctagg 120
actgaacttc tcctaacatc cagtaatggg gacctggaac ctgggcgtac tagagtgcgc 180
cgcgtagggc tccaggctgc tggctttctg cttttcttcc tctccaaagt tgagtatctc 240
ctatctgtgt cctcatacat actgccgcct gaggtgccat ggcccccaag cggggggccg 300
agtggagcac agccctgtcc catctggtgc tgggagtggg gtctctgcac gcagccgtga 360
gcacagccga ggcaagtcga ggggctgtct ctggcttctc gctccaggtc ttggctgcca 420
ccaccacgct ggccccaggg ctgagcacac atgaagactg ccttgctgga gcctgggtgg 480
ccaccgtcat cggccttccc cttctggcct tcgatttcca ctgggtgaat ggggaccgct 540
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gccctgaggg cktctgtggc tggtcaggca atgctgttgg tggctgcagt gaccatcctc 660
attgtagctg tcttcacggc caacacttat gggatgtggg ggggggcgat gctgggtgtg 720
gcaggcctcc tgagccgggt ggaggaggac aggcctgtgc tgctaccgaa ggaggatgtc 780
tgtcgtggg ccttggtgtg aggcagctgg gcttactgcc gggccctgca tacacagcgc 840
ctccagtggg agtgacagtt ggatacagcc aggcagggtt tctgccctgc cgaacacttt 900
ccctcccacc tgccctgtcc tggcgccttc tccctagggg tagactcttc tgcctactga 960
agtgggtttg ctgcacattg actggtcagg ggcagagtct ggggtgctgtc ctttggccac 1020
gtgtggggac ttgtctagac cagaatgaaa gggacagggt cccagacacg tttgggggtc 1080
ctgattctgg gctggacacg gttgtggatc cagagaagag gcctagtctc caataaatct 1140
taggaatatt gcaggaawaa aaaaaaaaaa aagttttt 1177

```

<210> 1168

<211> 698

<212> DNA

<213> Homo sapiens

<400> 1168

```

gtttaaatga gaacctaatg atacctggac aaacttctgg agaaattatc aaattgctaa 60
catgccatgt gaaatccttg aacactatta agataattac aggagattga tgtgtttgcc 120
ttagtttaaa atcttaatta gcattgacac caaaagcaac atccctatgt taaaaacaca 180
atgtgaatac tattttatta ttaccatgga accttgacct ttctttcctt cacctatagc 240
tcaatccttg tcttcttcca gtcccagggc tccttatcac aaccatcatt ttgattttac 300
actggattta catgatacct tttactgaag tgcttaaate taggaaagaa taaatttcta 360
ttgactagga gtccagaaact tagggtagaa tgatggagca ttgttttata acaggrgcag 420
tttccagctt ggattcaaaa tactgattaa aaaaatttgt tttctattat gattggatct 480
gtactttcta acgccaaata ttttaatcca gatacttttt atcttgatcc cacgcttgcc 540
ctttaacctt taccagaaat tcagagaaac agagtacata tttcgccaca caatggtcat 600
cctcactgaa tactttttatc cagaggctta caaactatga ccctccagtc aaatcctacc 660
ttgcccttgt ttttgtaaat aaagttttat tggaaacat 698

```

<210> 1169

<211> 1408

<212> DNA

<213> Homo sapiens

<400> 1169

```

taaaactatt atcttgtgtg tgtacatttg tgggtggagt ttgtgcgcct ggtttttttg 60
tttgaaaaac actgcgtggt caatgtggtt atggggggga gtgatgcatt tttttctagt 120
cttaaaaacta aaaacttgag tctaccattt cttggttgca ctgaaaatac cggccagcct 180
gatggtgttc ccgtgctgtc cctccccctt ccttctctcc cgcgtctacc tccccacccc 240
gttctgttcc ccctccctcc ttctccctct ccctcaaate cgtgagtttt ggaagcccca 300

```

746

```

gggcctctct cccccgcccc tcctggatga ggccaccatc ccccaaaccg gcttgttttg 360
cagtttcccc aggatcctgg aagctcgcgtg gcgctcgagg gtggcgggga cacggggggg 420
tgggtgaagg ttcgttacct tttctagtgc gttctatcat agttaacggt tgcacacttt 480
tttaaaaaaa gtaaatggat ttgccacaat taaatgtcat aacatttatg acagaatata 540
aaatattaac atattttaag ccaagtttta ggtgtatttt ttgaatcttg gttataaacc 600
caattttaaa gggcgatgta tccagcgttg tgaaggcaac agagtgtacc catatttata 660
tttttataaa atacctataa gactgtgaat ctcttggtgct aatggctgag ttaattgaag 720
gatcgttttg ccccttttta gcctcccaga gcttcgagga ctcaattcga acccgaaatc 780
ctgccgtggg ggagggggtg cgtcgagacc tgggcccggg gaggttctcc tgcgtcactt 840
tctgtcctga aaggcgccct tcctggtttc tgtggctcca attttctatg cagccccaca 900
ccccttgttg ttttgatcct gagaaataaa agggaggctg aattattcaa atttaaatga 960
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taccttttta attatgttaa ttaatgttaa gactttctag gcttatatcg aagctgtgtg 1260
tgggtcacgg ggtgatcact gctaactgga taaagtttgt gcagcacatt cctgagtgtg 1320
cgatattgac ctgtagccca gcgtgaaaaa tttataaata aatttttcat tgatcttttt 1380
atattaaaaa aaaaaaaaaa aaaaaaaaaa

```

<210> 1170

<211> 824

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 1170

```

ggcacgagcc ccccaccaag ggacagagtg caaggacatg atcgaacaga aaaagttctg 60
gtacaagatc aaccccgctg ggtgggtgagt gctgcagccc cgggcctcac atcctgccgt 120
ccctgtggga gnattggagc ggtcccagtg cccaccgctg attctytggc tccagcaacc 180
cctccaggtg gatccgtccc acgcagcctg gcctgaaaca ctgcccagcc actgggtcca 240
gtaagacaga gcctcgagtc attctgccga gaggatccag aaacacagac tttttctggg 300
gtcctggagg cttctggccc atggggagcc cctgggtccc agcgatccag ccctgatgtg 360
ctgaggggtg agggcccagc tgcagagcag aggagagtgg cccccaggga ccagcagcac 420
gaaaggcaca ctgaggcaca ctggcaggcc tgggctgcag agagcctgaa ggtcatgggg 480
tagctgrtgg aagcaggaag accccataca gcagcgacca ctgaggctgg tgctgcactt 540
tctcagggaa ttgagtgtgg gctcccacca tccgcgcac tggcttcctc caaagcctcc 600
tcctcttaca tcagcaaacc ttctgttcgg tgacccctc agtgaccctc tgtgcttgcc 660
ttcgtggtct tcctcatgga ggatttcggg tcagcgctgg ggtcagaggt catttcccat 720
acccctcaa aggtacttct tgcttggtcc ccacactctg acaccctctt ctgaaatgaa 780
cacttttttg ttgttgttgt tgagacagag tgagacgcca tctg

```

<210> 1171

<211> 595

<212> DNA

<213> Homo sapiens

747

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<400> 1171

```
agcaactaac ttcttgtag tgatcttaca ttgctcagca agtatagcat tattgcaaga 60
tttacagaat tcagggtcttt aaaagtttat attttatttc catatgtaga taagcttggtc 120
agtttactgt tggagtatca taaagttttt gttaaaatta cacagggtat taagtaaatt 180
tccaaggata aaaattatgt ttctaattaa cttgaatttt taagtaactg atgcccccat 240
gtggcaaagg atttattttt cttttgttta aacttggaga atgactgtct ttccattttt 300
ctttaaaaaa gtggacatta gtgtttataa agaagctgtt gaccaagaga cataatttga 360
attttgtaaa gctcattgcc ataaaattca cagcccccta ccctgtattg tctcacaagt 420
gcatgtaatc aagcacgtac aatgagacaa aatattggaa gctattttaat tacaaatagc 480
ataggggatt ttctgatctt atatgtgatt tcttaatgtc tttgttttgn ggcttacata 540
ggtgatgtca gttcattgat tatgaatatt ctggatacaa ctccctgcata tgata 595
```

<210> 1172

<211> 486

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<400> 1172

```
anatcaaccc tcaactaaagg gaacaaaagc tggagctcca ccgcggtggc ggccgctcta 60
gaactagtgg atcccccggt ctgcaggaat tcggcacgag tggaacttgg actgttttct 120
gaggtattgc aagcatgaac ttttaaattg ccttgtgtgg tgtgctgtgg gcttctgtga 180
tcatgaagta acatgcattt ttcttaaaac ttttcagggt ggtagagatt gcagcctgtc 240
actcyrcmca cagctctgca gccaaagacgc aggggtgggca cgtgtacatg tggggccagt 300
gccgggggtca gtccgtgatc ctcccgcacc tcaccactt ctccctgcacc gacgacgtgt 360
ttgcctgctt tgccactccg gccgtctcgt ggcnctcct gtctgtgggt aagaaagtgc 420
agggccactt caccagggga ggaatggtac taccaactga ccagttttcc tgtgtctttg 480
ctggtt 486
```

<210> 1173

<211> 1109

<212> DNA

<213> Homo sapiens

<400> 1173

```
aacaaggttc tcaagagaca cctgcctttg cagggtgggg agtccgkag gagaaggtag 60
ggaggccccg tctccactct ggccccacaa tccctgcccc tgagcagggt gagcatatga 120
```

748

```

cccgtcacct gkaggagagt gagaaggcca tgcaggagcg ggtgcagagg ctggaggcgg 180
cgcggtctgt cctggaggag gagctgagcc gagtgaagc agcggcactc agcgagcgtk 240
gccaggctga ggaggartg atcaaggcca agagccaggc ccgctggagg agcaacagcg 300
cctggctcac ctggaggaca agctgagact gctggcgagc gcacgggacg aggcgcaggg 360
cgcttgccca cagcagaagc aggtggtggc cgaggcccag acccggtca gccagctggg 420
cctgcaagtt gagggcctgc ggcggcgctt ggaagagctg cagcaggagc tgagcctcaa 480
ggaccaggaa aggggtggccg aggtgagcag ggtgcgcgtg gagctgcagg agcagaacgg 540
ccggctgcag gcggagctgg cggctcagga ggcgctgagg gagaaggcgg cggccctgga 600
gcgccagctg aaagtgatgg cgagcgacca ccgagaggcg ctgctggaca gggagagcga 660
gaacgcgtct ctccgggaga agctgcggct ccgggaggcg gagatcgccc gcacccggga 720
cgaggaggcc cagaggcgca gcttcctgca gaacgcctc ctggcttacg tgcaggcgctc 780
ccccgtgagg accctgagcc ccccaaagtg agacaggccg ggaggaccg ggcgcagtag 840
gagtgcacat ggcggcgccc gagatggacc aggggctgcg tcccgcccgc gccgcctctt 900
tgagaccggg gtcgtctgtt ccacgcggcg gttgcggcga ctgttgggtg tgtcgcggct 960
gcggggggaa cccgtgggag gcgcctggga agggctccct accggccctt tcttcccggt 1020
cgacgccacg tgggagcaca ccgggaaggg gtcccgcggg cgcgtctccc cctcgccctt 1080
tgcgatgtca ccgtgaacgc tgcggccgc 1109

```

<210> 1174

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 1174

```

tctcccctat aggttcatag aaaaaaact cccaccttat aaaggaatct ttaaaagggtt 60
cctcataaag gaacagggtt agcagaacca agttttgagt cctgggtgaa aatccagggg 120
agaatggtaa tcagtataa ccaatggcca atccaatatt aaaattagtt aacagtgacc 180
aatcttattt cacctacccc acccagagtg gcccaaagca gattgctgga tctgcctcta 240
aaccaacctt cctkcaaaa taattggggt taggttgtgt ctgctgattg tctccataat 300
ttgagatttt aacaagttga gtttggctcc caaatacctt aaaggatttt ttttttnggc 360
atctctgggg agggggagat tggacgtagg caaccaaca ggaatggaat aagaaat 417

```

<210> 1175

<211> 972

<212> DNA

<213> Homo sapiens

<400> 1175

```

aatgttgccct ttgtccaagt atagattaag gcaacaaaca tatttggtg tgtaatttga 60
agttttggac tgaaatatct ttgcaagtat ccacataaaa ttctgtaatg ccttataatt 120
atattctaata aattatgcat tataactaaga caccattaag aacagttgag gcactacact 180
aatcaaaacc ataaatgagg aaaaaacttt taatgttctt ttctagaagt gttcaaatag 240
gtcttgatat gaagctaaaa gccttattta tattatctta atatttcggc taaaatgtta 300
agctccataa catgaattga tacaattcca attttatcaa tattytgtga tagaaaaatg 360
ttaatattat tcatgagcta tacagtcctt acattttttc ccttggtgta ggaacaacgg 420
aggagtttct cctctgctaa ctattcatat atgtaactgt aacaaaagt tactatgtta 480

```

749

```

tgcacacatt acaaataata taaggggaag ttttattagc ttagtaggaa attgttatta 540
ttaagggttta aaaatgagaa caggtgtgag ttttccaaaa tacttaaaaa taatagtgtc 600
aaaaattcag gggcagttaa ggagtcacatg atggaactag aggtcactat attaagtgtc 660
ataagccaga aacagacaaa cattgcatgt tctcaattat ttgcgggac taaaagtcaa 720
aacaattgaa ctcatggata tagagagtag aaggatgggt actagtgggt gggaaaagg 780
gtgtgacgag ggaactgggg atgcttaatg tgtacaaaa ctatgtagt agaaagtata 840
aataagacct agtatttgat agcacaaccg ggtgagtata gtcaataata gcttaattgt 900
acaaataact aagagtataa ttggattgtt tgtaacacaa ataaatactt gagtggatgg 960
ataaaaaaaaa aa 972

```

<210> 1176

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<400> 1176

```

ctcgagcggg gctgggtgtga aagctgccta accacagccc catctccgcc ctgtgctgct 60
gaggggaccc cggctgccc aaggttccag gaggtctctgt ctgacttctg gctggccctg 120
gagcagctga ggggccacgc tgccatcgac tacacgcagc tgggacctgcg kttcaagctg 180
caacctggga ggtgctacac aatgtggcgt cggcacagtg ccagctgggg ctctggacag 240
aggcggcagc agcctaaggg aggccatgtc caagtggccg gagggtcctt gaatggcctg 300
gactcagccc tggaccaagt gcagagacgg ggctcactgc cgcamggcag ktccccagg 360
cgagktyttc cggccccamc gtggacctga acacttggag cccgtggatt tctggcaagg 420
ccaaggtngg tggcctntgc cat 443

```

<210> 1177

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<400> 1177

```

ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagtc tggagacaag 60
ctgaaacttg accagactca tttagagaca gtaattccag caccaggaaa aagaattcta 120
gttttaaatg gaggtacag aggaaatgaa ggtaccctag aatccatcaa tgagaagact 180
ttttcagcta ctatcgatcat tgaaactggc cctttaaaag gacgcagagt tgaaggaatt 240
caatatgaag acatttctaa acttgccctga gtttgaaaat ttgttaacaa tacattaaaa 300

```

750

```

tcttaaagca tcaaattggt gttcgccaag gcattatgag actctactgt gttagggtat 360
attcttttgt ataaaacaaa cagggttttg aaaatattac tgtatagtta gttgttcagc 420
taaactttga gaagaattta attatgtctc atgaggtatc aaactatgta attttgtcct 480
tgttattttt gtttcctttg taatttactt gatgagttta tatcttcatt aaagaatgtt 540
attataaaaa aaaaaaaaaa aaaactcgag ggggggcccc ggtaccncaa t          591

```

<210> 1178

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 1178

```

aattnttcn cctgatanga tttcagcaaa ttctgatanc ccgggtatta cttcttaatg 60
catttttcta acatttgaca aacatctccc aatatgtaga ctcccactct cctgatgcta 120
atcagtatca gacaatggaa gtaaattttc ctgcttttct caacttttcc tcaaattcat 180
gttagtgaag tactttcatt tggccatcat tatttatcaa ccttaagaaa catgcctatt 240
gacgaagtaa atatactagg aattcaacgt atctacggga atgtggacaa agacatatac 300
caagacaagg cactagagtg aaaagccatt aaaataaaat gctcagcagc aaaggatttg 360
taatggttaa cttgcaatat rtccatatgg tgtaatatata cagtcattag aaatgacatt 420
tgcgtaagga tctgagtggg aactgataca gcctgtcgga          460

```

<210> 1179

<211> 567

<212> DNA

<213> Homo sapiens

<400> 1179

```

gagacaacaa aacaaacaca gaaaaaagaa cataataaca gagacaaaat aaaattcaga 60
caacagtawa ctgaasmcat tttaaaaacc agaatatgta gtctacggat atttttttatc 120
ataaaaatga tctttggcta aacaccccat ttactaaag tcttcctgcc aggtagttcc 180
cactgatgga aatgtttatg gcaaataatt ttgccttcta ggctgttgct ctaacaaaat 240

```


751

```

aaaccttaga catatcacac ctaaaatatg ctgcagattt tataattgat tggttactta 300
ttaaagaagc aaaacacagc accctttaccc ttagtctcct cacataaatt tcttactata 360
cttttcataa tggttgcattg atatttcacc taccaaagct gtgctgttaa tgccgtgaaa 420
gtttaacgtt tgcgataaac tgccgtaatt ttgatacatc tgtgatttag gtcattaatt 480
tagataaact agctcattat ttccatcttt ggaaaaggaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaa 567

```

<210> 1180

<211> 349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<400> 1180

```

gcaatccttt cgcattctggg cagttccaaa ctagaattct tgcctgccct gcctcccatg 60
gaatgccctt accctactgc caatgtgatc tttctgaaac agcatacctg atattgtcat 120
tcccaggagc agcttccacac ctccctcagg atttaaactt taaactctac agctctccac 180
actcacctca acaatgagct cctctcatca tttcttctcc tttgtcccag tcacaggcca 240
cttttgggcc atgscaaacc actttatttc tgaarsttct gccctgract gttkgytctt 300
tgactggggg gctaaggatg actgcagtca tgcaggggnc aggggnaag 349

```

<210> 1181

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<400> 1181

```

ggcagagcac tgcactccag cctgggtgac aagagcaaga ctccgtctca aaataaataa 60
ataaaaaataa aaaataaaca tgatgatcac agatgcagtc acattttctg agttcttgct 120
tctctgccag tgcccaccca gatagcctca caaaactttg acccagccac tgttagtgct 180
gccaccgscg ataaaggagc tgagcccagc aggggmactg cctggggccc tgtagccaaa 240
aggctacagc aggagctgat gaccctcatg atgyctggyg ayaaaagaat ttctgctacc 300

```

752

ctgaaagcct tatcaaatgg acaccattca tgaaagcaac tggcacaggg gnatggaaga 360
tctganggat aagctcttg 379

<210> 1182

<211> 403

<212> DNA

<213> Homo sapiens

<400> 1182

gccc aaagtc ctgg gattac aggctgagcc accgcgaccg gccctgctgt tgcttctgag 60
gtttgaaaac cgctgcctca atgctcctga ttcagctctt cttacccaaa ggttccccca 120
cctcatctac tctgttcctg cacagtcgcc cttttctctg atgccccggg caggtttctc 180
tctgccagct ccacgcttct ggagtcctcc atccgtcttg gggcccagct gccactgtc 240
tgggttcaga ccttctcaac actccctggc ttctctgccc tagttttgcc ttctccaatc 300
cactcttggt ggggtggaagt acggttacca tggtaacttg aagacaacgc aaatctgatt 360
gtatcattac aatgactggg aaaacctcca gtgccacaaa ata 403

<210> 1183

<211> 417

<212> DNA

<213> Homo sapiens

<400> 1183

gctagattaa atcgtagaat gtgtgccagc aaagcttaaa gtttccaggt tagctgaggg 60
aggccatttg gaaacttgtg tctgaactcc aataggagag agaattgtca agcaatgggt 120
cttctgcccc tttccctctg ctttgccatc ccatgggata agggaaccac ctcaggttcc 180
caatccccaa atcaatatca cagagttagt agtccaggcc ctgggctaaa attagacccc 240
atagagtttc tagtattaat tggcccatta ttttaatagt aattaatgta attagtctgt 300
agctatgttt atttgtaata tggaggatgc ctgtctgctg tacatacatc tttctaagac 360
agatcctaag ctgtgttcaa tttcttttcc agtgaataac atttctagtc acaggac 417

<210> 1184

<211> 643

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 1184

tgacacgttt aagttgatac cattgtgcc a ttcctctttt ggctcttttt ttgtccatag 60
aggcttcaag atagataggt aagagccag tagtgttcat aagaagccaa tagagagcag 120
gagccacttt atcaggtggc aggtgtcctg ggctcctg ctggctagtc ccaagcgggtg 180
gtgttgccag gatgtcttgg aggtgataat gggacacaca gaggcactga gtctccatag 240
gttaaaatgc caccaaaact ggctttggc taatatccct cattgactat ttrgcattta 300
atatttttat tttctgaca tttctgcaag ctttgtattt atatttccac tttatagatg 360
aggaaatttg aggctcttag aggtaaaatg acttgcccag gtcacacagg aagtggcaga 420
gacaagcttt ttaaataaga aaaaattaat aaaatataat atgagagtaa cttaaaatat 480
taataaacca caattttaaa ttaattaacc gtgataacca acattaataa aagttaagat 540

753

acaaaaacac tgggtgtctaa ttctttcaac taacaacttg aattattttc ccatttttaa 600
ttaattaacc gtgatancca acattaataa aagttaagat acc 643

<210> 1185

<211> 551

<212> DNA

<213> Homo sapiens

<400> 1185

tatataat t aatgcaaagt cttttacatt aatgtaaggg taggaaaaga gggtggagga 60
agatatgggg aggtaggaaa atgggacttt tttcctccat ttacttttga tgtttgaatt 120
tcaaacatga gtatat tttgt gtattat tttt gcggttaaaa acactgaaga ttgcataaag 180
atcaaagagg gaaattttaag ggaattaatg gggtatgatt gcatttggtc agaatgggtt 240
tggtgggtc tgaacaacatt ttgagagaga gagattttta tggcaccaat ggcagctagg 300
ataactagtt taaagtttag ggctgtgtt aatagatttt gctttctagt ttcagaaaaga 360
ttctcttata gtactgtttt aatctgtttt tctaagccct ctgatttatg tatatttaat 420
aggccacaaa ataatgtcaa atatatggca taataaccaa caaatatttg aataagtga 480
agggtactct caaaatgcta tgggaaagac aaaaataaat aatatccctt tctttgaggg 540
attaacagtg a 551

<210> 1186

<211> 567

<212> DNA

<213> Homo sapiens

<400> 1186

aacacactat aaactttcaa ggagagaggg tgtgtcttct tcatgtttat atctgctaca 60
acactgagtt catggctttt cacacataat tgctcaacag agcaggtgcc atggaaagtc 120
aattcaatga gtaaaattac ctcaaaatag tccgttaatt cactcacctt tgatgtagac 180
agattattct gcattgatac ttatctctta ctcttaaaat tcgctatgta ttaataaata 240
ttttattgaa tattaaggaa tgatcactat ttaataaga tgttctttac catatatttc 300
tatatgtaca tgataattag aagtatcaaa ttatattgtg gaatgtaaaa gcttttcttc 360
tgaagccaag catttggttt attgtcattt cagtggcaaa tatggacttc atattcaaaa 420
tgatgttcta tattat tttt ccttacaagc ttttgaaaa acaatttaat aattccatga 480
ttgttgtagc accactgaat tgattctgaa agcttacttt ttaataaaaa attgacctt 540
atcaagcaaa aaaaaaaaaa aaaaaaa 567

<210> 1187

<211> 566

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (543)

<223> n equals a,t,g, or c

754

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 1187

```
ccatcttttct ctctgctcta tgagaccctc cccttcctta tttttatctc ttcccacttt 60
atgctggggc ttccctatcc tgccctgagt tatagttagt cactaacttc tcsgetggct 120
cccaccctta tcacatctca gctacatata taaactctct gttatctaag taattctatt 180
agccagaagc aattccagag tttatattag tactaggaag gtgtcatgta gcccctgtct 240
aacatttgaa ttgaactaaa atgtgaatct caataaaagc aacacagttt tcacagcata 300
tgctgataat ggcaatccaa cttcttttgc cttttcccca gagaatcctg ggaatatcct 360
gagcttggtg ctttgatgat tctatttcag ctttggtgcc ttaaaaaaaaa ttacaaatca 420
attttgaaat gtttaagttc atgattttgt tctgcagccc tagctagggg tgagccaagc 480
cttatgaaat ctaaactcag cctaacagaa tagaaatcta taggcttang ttaagggtca 540
canggcccca gtccagngtg tgattg 566
```

<210> 1188

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<400> 1188

```
ggcagaggtc tttgaggaat tgccaccctg tcttccacga tggttgaact aatttacact 60
cctaccaaca gtgtaaaagt gtcccttttt ctccacaacc ttgccagsat ccgttggttt 120
tttaattttt tattgataac cattcttatt ggtgtgagat ggtatctcat ggtgggtttg 180
atttgcattt ctgtaatgat cagtgatgtt gagttttttt catatgattg ctggccacat 240
gtatgtctta ttttcagaag tgtctgttca tgtcgtttgc ccactttgan gagttgtttg 300
tttc 304
```

<210> 1189

<211> 540

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

755

```

<400> 1189
tgtgtgtaca tcacaaatct gttttcttnt gtttctcttt aaaaatgtnt cctgagtgat 60
ttcatcagca gtgctgttgc taagcctata ttttagcaact gaaaatcatg ctcagaaata 120
ctgtcatgct tttttaaaaa rgcataatcca tccctccaca catggctgat tccagaacct 180
tcatgccctt agcaaaaaat tgagctgtcc ttcagggttt caaaaaaagt actgtactcc 240
tgctgcaccc cmggctcttg gcaaggaggg gacttttgtc ctagagaatg ttctttctta 300
tgtattattg caaaacaatt ttgttcttgc atactgaagc atcactggat gaatttcttt 360
cccctgtaga caaaccgagg gtgagtattg ctctttaaat gtcagtaaat ttgttttagc 420
ttctggggca aaccttgttg tactcattct gttcctccca gcataaatg ttaggttgtc 480
ataaaatagg gcaaattgag gatagtgtaa ctactgctgc tgaataaatg ggaaatagtg 540

```

<210> 1190

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 1190

```

gcttctctaa ctaggaagta tacgtaaagg aggaattgct agggcatggg attggcataa 60
tttcaccttt tctagatatt gcccantcgc tgcccacagt gcacatacct ttccaccagt 120
cacatgtgag agggcgagatt ttccaaatgc tcatcaccac ttggcactgt gtggactata 180
atthttggcca gttaggaaat ggcattctcat tgttttcatc ttaatttgcg tcagcctgat 240
tactcattga aacttgtgan gttgagaaac ttttcttaag cttattggcc attcaagttt 300
cctcctttat gaaatggttg ttcatgtcat ttgctcattt ttatattana ttgtttttct 360
tttttccagc tkacttgtak gaactctaca tcttatcaat attaatacatt tatcgaaaac 420
tatttgggtg ccattatctt ctctagtcca atgttttttg tttgtggata tcttttataa 480
tatataant

```

<210> 1191

<211> 412

<212> DNA

<213> Homo sapiens

756

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 1191

```

tcaggcattg acacttttga agaaaggggg taggggacac agctgggcag gtggagtggg 60
tkggcaggat ggctgtccca gtctgcccac cttctcttgg ctctgggacc agcggcttgt 120
tctagggatt tggacctgga ggccaagggc aataggagag ggtctgaagc ctgtgctgtc 180
tgctgcttgc tgtgaatggc cctcccgggt catgacagag ctcttttggg gcaggaggtg 240
agggcagggg gccccgctcc ttggtaaggg cctgccctgg ggctcccagg gaagtgggag 300
ctggggagcc aatccaccca gaccgcgctc cacctgggag gcatttgggg ttgcaggacc 360
gagaccacac tcctctnact cacttctcca cccgccagca gctgccacag gc 412

```

<210> 1192

<211> 828

<212> DNA

<213> Homo sapiens

<400> 1192

```

gcggccgccc cgcccccgct cccgcmgccc cccgccagtc agtcagtcag tcagtcagtc 60
agtcagtcag tcaactgagcg cgcgccgccc gagctgctgg cagtcgctgc gtctctggcg 120
agggagcgcc gcgcctgggg aggaggcgga ggcagcggtt ggaggagcgc gagcgccggt 180
ttccttgccc ggggcccggg gaaggccgac cgactgccgc gatggagcag ctatcagatg 240
aagaaattga tcatggtgct gaagaagaca gtgacaagga agatcaggac ctggacaaaa 300
tgtttggagc ctggcttggg gaactagaca aactcactca gagtttggat tctgacaagc 360
ccatggaacc agtaaaaaaga tctcctcttc gccaggaaac aaacatggcc aacttttctt 420
accgcttcty catatacaac ttgaatgaag ctctgaatca gggagagact gtggatctgg 480
atgccttgat ggctgatctt tgctctatag agcaggagct cagcagcatt ggttcaggaa 540
acagtaacgc tcaaatcaca gaaacgaaag ctactcagaa attgsctgkt arccsacata 600
cattgraaca tggcaccttg aaaggattat cttcttcata taataggata gctaaacctt 660
cccätgccag ctactccttg gacgacgtca ctgcacagtt agaacaggcc tctttgagta 720
tggtatgaggc tgctcagcaa tctgtactag aagatactaa acccttagta actaatcagc 780
acagaagaac cgcagtcagc aggcacagtg agtgatgctg aagtacac 828

```

<210> 1193

<211> 280

<212> DNA

<213> Homo sapiens

<400> 1193

```

atttaaaaga caaagtaagt aaaaatactt ttagtaggca ttcgtggatt gtgaacatcc 60
aagttatatt ggtttgtata gaatggcatt aagtaaaaaat tacagctgta taacagtagt 120
tttctaaatt gagagagtcc acattgtaat tagagatcac tgtgaccaa atgcttctcc 180
ttgatttata atgatgkact gtatttttga ctgcttatat gaaatttcag caagattgac 240
gatattataa agatgcttat aaagtgtgaa tggagacgct 280

```

<210> 1194

<211> 393

<212> DNA

757

<213> Homo sapiens

<400> 1194

```
gcattccctt tgccatcccc tggactcact cctcacccta ttccccaaaa agtgagaagg 60
gcaggctgtg tagatggcat tcctgagaat gagccagtgg agagcatctg gccctggcat 120
gtgaattcaa gcctttttccc agctgtaata accaccctct tttttccaca ggggctaaac 180
tgcacgggtca agaatagtaa gtcactcttt tctgttcttc ttcttggtgc cttcttaatc 240
aagtgagagc ctgctgccaa cttctgacag aagtcttgcc atgccactcc aggttcaggc 300
tgtgagctac agccatccgc aggaggggtc ccggaraaat tgtggatgcg ttgcacctgc 360
gcttctgtcg agaacattca ttatgcaaaa ttc 393
```

<210> 1195

<211> 937

<212> DNA

<213> Homo sapiens

<400> 1195

```
gatggctggg ggtgggagtg taagtccctt ttcctacttt catgtaaagt gccacagggtg 60
tcttggtttg catattcaaa tattatatag gaaaaacagt ctgttatgta tttcttcacc 120
tagcttcttg taatatttat ggacgtttcc agtttttgta cttcttagc taaagcagtt 180
gcctttttgt aatggcaatt aatttatatg ataaaacttt gtatccactg tagttgacag 240
tattggttgc taattaactg ccatattgcc ctgtctttct attaaaaaaa tactgtacct 300
gtacttagag gctaacagat tcatgtggac atttaccagg caagaccaac ttgtattgtc 360
catgatttct acgatttcca ctatcttcaa atgaaaaata aacgctgagt agaactgatg 420
ttttcagact aactcctttc aacttttagca tttgggagtc ccagatttct gtttacgttt 480
gtgtcgccctg tttgtctcca aaataagttc tgctgtctct gggtcaaaac aaatgattaa 540
ttcgcatttc ctttgaagcc attgtgaaaa ccttaaaaga aaaaawaaar araaaaagca 600
agtatctttt ccagttgggt tgtcttcagc agcaatttac tcttattgaa gctgttccct 660
cggagtgtgt gaacagactc aagatattat tataaagcat catccttcaa tcaaaggatt 720
attttataat atgtgctgtg aaattaactt gagtggcaaa gtttggtgca atgagttatt 780
tcattcaatg gtgattgatg ctgttaagta atatttttaa gtgactcgag gaaatactgt 840
gcatttacag atccatcctt aaggatgcag gtctaaaaaa agagtaagaa agaaaaatca 900
agtggtagat agataraara araraaaaaa aaaaaaa 937
```

<210> 1196

<211> 490

<212> DNA

<213> Homo sapiens

<400> 1196

```
gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc cacgcgtccg tttttttttt 60
tttttttttt tttttttttt ttttttgttt tttttttttt tttttgttg tacacaatca 120
tttgttttat ttgaaaacat gtctacactg cattgagcac caacacagggt gtgaccaaga 180
aaccacagct cctgtccccg cagcactggg tccagtgtat gacttggggg ggactgttat 240
ttttcacagt gaggggggga aggataggaa agaaaagatg gccattatcc caactcctgt 300
tcaggaatct gaacaatgaa agttatttaa actcatccag ctcttctcat tccccttctc 360
tcaatcagct ggtgttcaaa tatggaatct gaggcgagc gcagtctctg gtttctttga 420
agaactttag gcacactcca ggctcaggaa aactgcactc ctagttcttt ctgattgcaa 480
tagccttctc 490
```

<210> 1197

758

<211> 1511
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (649)
<223> n equals a,t,g, or c

<400> 1197
aggaggaacc agaccgcggc cagagcggtc aggaaacaaa tgggaagactg ctgcgaaccc 60
tgcccatctc tttgctatga ctaaaatgaa ttcccctatg ggnaagaagg catgtggtat 120
gacggggagt ttttatactc attcaccatt gacaattcaa cttactctct cttcccacag 180
gcaaccccat tccagctgcc attgaagaaa tgcgcggtgg tgggaaatgg tgggattctg 240
aagaagagtg gctgtggcgt caaatagatg aagcaaatgt tgtcatgcga tgcaatctcc 300
ctcctttgtc aagtgaatac actaaggatg tnggatccaa aagtcagtta gtgacagcta 360
atcccagcat aattcggcaa aggtttcaga accttctgtg gtccagaaag acatttgtgg 420
acaacatgaa aatytataac cacagttaca tctacatgcc tgccttttct atgaagacrg 480
gaacagagcc atcttgaggg tttattatac actgtcagat gttggtgcca atcaaacagt 540
gctgtttgcc aaccccaact ttctgcgtar ttggaaagt ctggaaaagt agaggawtcc 600
atgccaagcg cctgtccaca ggactttttc tgggtgagcg acttgsggnt ctctgtgaag 660
agggtggccat ctatggcttc tggcccttct ctgtgaatat gcatgagcag cccatcagcc 720
accactacta tgacaacgtc ttaccctttt ctggcttcca tgccatgcc gaggaatttc 780
tccaactctg gtatcttcat aaaatcgggt cactgagaat gcagctggac ccatgtgaag 840
atacctcact ccagcccact tcctaggaac aatggaagaa gaaaggactg aaccagggtg 900
tttttgtagt gttttctatg tgactccaag agggaatggt caagttgttt catgagtttg 960
catgggcccct tggaaaaaca ggaaaggagc aatgaagatc caagcaaac ttacttttca 1020
gcgttggtct ggaggacaaa taagaaatga aacatcctat gaaatacttt atagcacatg 1080
gcagatttgc aactagtata atgctggtga aatgctgttg gtaaagcaca tgggttcaa 1140
ctagaagatg cagttcaaaa acaagacaga ctcgagttgt tagggctgag gaaccaatca 1200
aggtagaaca aagaaaaatg tggggtaaaa gtgttgctga ttgtcaacac aaactggctt 1260
aataatatta ataagaacct gtcttattaa gactggcttt agaaccgtag gtttttttaa 1320
aaaattatta tttatttttg cctcttttg ggaagtgggt gggtagattt aaaaaatccc 1380
ttcctgagta ataaagatac aaaatgttac tgctgataat tgtgatttgt tgagccacgt 1440
ctatattaac tatagctccc ctctattttt aaaattttac ataaaattgc ttcttcctct 1500
tttgtcaagt c 1511

<210> 1198
<211> 743
<212> DNA
<213> Homo sapiens

759

<220>
 <221> misc feature
 <222> (712)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (732)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (735)
 <223> n equals a,t,g, or c

<400> 1198
 ctatcaaaagc attgccttat actttgaagg agaaaagaga tatcttcagg ctggaaaatt 60
 ctctctgtctg tgtggccaat attcacgagc acttaaacac ttcctgaaat gccaagctc 120
 ggaagataat gtggcaatag aaatggcaat tgaaactgtt ggtcaggcca aagatgaact 180
 gctgaccaat cagctgatag accatctcct ggggggagaac gatggcatgc ctaaggatgc 240
 caagtacctg ttccgcttgt acatggctct gaagcaatac cgagaagctg cccagactgc 300
 catcatcatt gccagagaag agcagtytgc aggcaactac cggaatgcac acgatgttct 360
 cttcagtatg tatgcagaac tgaaatccca gaagatcaaa attccctccg agatggccac 420
 caacctcatg attctgcaca gctatatact agtaaagatt catgttaaaa atggagatca 480
 catgaaaggg gctcgcatgc tcattcgggt ggccaacaac atcagcaaat ttccatcaca 540
 cattgtaccc atcctgacgt caactgtgat tgagtgtcac agggcaggcc tgaagaactc 600
 tgctttcagc ttcgcagcta tgttgatgag gcctgaatac cgcagcaaaa tagatgccaa 660
 atacaaaaag aagatcgagg gaatggttca ggagaccga tatatcttga gntagaagag 720
 gccacgattc cngtnccttt ttg 743

<210> 1199
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 1199
 gagcagggaa actgtgtcct ggcagagatc gtgggtcctgg gcacacagga cccctcagca 60
 cactgaggtg gagctggggc gaggggaggg ggtgcgctct gggtaactga aggtgtgaag 120
 sgcccagggc ctgtttcttg gcagtgcagg aagtccarc cccatgectg tggtagatc 180
 ccctgtaggg cccccccac catggacact tcggggcctc tacggtcttc caaagctgtg 240
 tcctcatttc cactgcagca gaggggcgtc cccagctccg tcaaacagcc ctttctgttt 300
 ctggagtcct acaagtggag gcccaaatec gttcccatgt tgaggcaagg ccctggctgt 360
 tccttcctct ctggaaaccg ccttgaactc ttcctttggg acatgectec tcgaccagcc 420
 ttgaaggggt gctcctctct cactacctgg aaccaaacac ccccttcctt tgtgtacaag 480
 ggcaataaag agtagacctt catcttcaa 509

<210> 1200
 <211> 266
 <212> DNA
 <213> Homo sapiens

760

<400> 1200

```

ggggagggggg atgtaaattt gataaatagg ttggtgaaaa cttatatattt cttgtaaaga 60
gagagaactg agcatgttgt aggtataagg taaaaaggcg tgaagaggaa tatttcgttg 120
ataatgaaag tgagcagcta gggaaagaaa ctcccagagg aagagggagg caaggaaatc 180
aagaacacac ttaaagtttg tcagaagaag gaactttatt tccttaaaca ttcaagaaag 240
atgatgtcat ttcagttatt gattgt 266

```

<210> 1201

<211> 394

<212> DNA

<213> Homo sapiens

<400> 1201

```

gttttctaca tatcttgaaa ggcagtgcac aatgacgtgt aattatctag gtggtaaaac 60
tgaacatac ttctcttcc cttgaatata aaaaagcatt gtggtattag tacttttattc 120
ttggatcatt gttcagaagg aggttcagcc cccagacaac cacattttta ctgtcatgaa 180
tggcaagaca aaatgtagag ctcaacttac ccaaaggaaa aaagggtcaa aagacaaatt 240
atggcacaac ttagcagcca aattcttacc aagtacagac ttttgacata ctgatctctc 300
tccagttsc a gtsggaaaca tgcactttga atgatgtcat tcaaaattac cctgccccaga 360
cacacttttc attgattctc ttggagggca gttc 394

```

<210> 1202

<211> 434

<212> DNA

<213> Homo sapiens

<400> 1202

```

caaaaaggcc agaggctcac taggtcagca tcataccaaa cgcctggctt tcaccaggca 60
tcagtgtgct tcasttgaga gtttggtacc atggttaaga tcgagtccat gctaggtaag 120
tcctgttagg aatgtcagtt tgtattccgc ccacgtgaat gatgctgagc ttaatgtatt 180
atthttgaggg gcttcttcag agcagttctc actgagcttt ccattaacct acactcttcc 240
ggacggctct taaaacttgc aggacataat gaaattggga agagcagagt gttgaagtct 300
atagcatggc cttctgcttg accctgagtt cctgaattga atgtgggaga cacaggccat 360
acttctctag gcactcacat gtctcccttg gcataaggaa acatgttagt aatatagttt 420
tttagatcca acag 434

```

<210> 1203

<211> 425

<212> DNA

<213> Homo sapiens

<400> 1203

```

cactcggcca ggcgccggcg acctgagggg agagggaaacg cagctgaaac tcgaactgtg 60
agatgctttt gacaagttat aataagggag agatggtagt aaaggaagtg aagaagcgac 120
gtgaaattga aggaaaagaa aatgacctgc cttcttaccg cggttggaat acacacccaa 180
acgagaggta gcagagaagc aagcagtgca ttctgttaaa aattattgtg tcctcatttg 240
agagaggagg gatcctcaaa taatacaact atgtgcaaag caggaagtga aatccttctc 300
agtcctctcc ccagttgtaa tccaagcctt ccacatcttt cctgtatgtg cataaccatg 360
ttattttgct ttcttatgaa aatgagatta tgcatactgt tcgataatct gtttcagatt 420
aaata 425

```

761

<210> 1204
<211> 689
<212> DNA
<213> Homo sapiens

<400> 1204
ttcgacccac gcgtccgccc gcgtcccagc tagagccaga ccgtcgctcc ctgccccgca 60
cgccgtcggc ctcccttgccc agcagccgcc gcagcagcat gggcagcaca gcagttgcca 120
ctgacgtcaa gaaactgatg tcctcagagc agtaccacac agaggagctc ttcccgaggg 180
gcacaaatcc ttttgccact gtcaagcttc gtcccacat caccaatgac cgctcagcac 240
ccctcatccg ctgaggcggg gtccgagggtc gtaccccaca gtgcacctgc ccaggggctg 300
ttcagagctg gcaatggcag cgacagcagc aacagcagca gatccaagaa gcgggtccct 360
gagacggggg gtggctgccc tcccagacc accccggcag cctgagcagc tccaaagcac 420
tggcttgggg tccgagacct tcaaagtaaa gcaggcggaa tggggggaca ggacaatttc 480
tccccctcca ggggtccag gactctccct ggggggcccc cctcttgccc cctaacctct 540
ttcccccttt tctgcccccg tggggaggag ccccttgtag ctgctccgtg cccaacacat 600
gccctctctg tacatctttt gtaaagtatg agaaataaag gaagtggacg caaagtgatg 660
cggcaaaaaa aaaaaaaaaa aaataaaaa 689

<210> 1205
<211> 2476
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (833)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2456)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2472)
<223> n equals a,t,g, or c

<400> 1205

762

```

gaagtgctgc tagtttttat gagaagtata ttatattaaa tgtgaatttt ttaaattttg 60
cttcttatac tggaaggaat tttagccttc atattgatat ctaattaatt atttaagtgg 120
aagaggctgc atcacaattg aggtaatgta gagcaacatg ttaaagaatg atggtagca 180
gaagctgttg tatacaatct tcatgaaaat ttcagtgtgt atttttcttt ttctataata 240
cctttaactg caaagaaaag gcagtttcaa atataagaaa tttatttcag gtaagggtaa 300
tattttaata gtagtcaata atctagctta aggctgtaac tcttctatcg gggctaattg 360
tatgaatagg tgtcagtatg ttgaagatta ctttcttttg tgactttctt ctacctcatg 420
ccactgttta aaagtaaaay gtattttaat gatgttagaa taagactacc attctaaata 480
tcacctactt atgaataaca tgtaataatt ttttaacmtta atgattccmt aaaattgtat 540
tattgggatt agaattgtgyt ttatgacmgy ttagtgtttc ctctgmggca gaaaactctt 600
ttttggrgat atcttccatc aagcagtaact cgtgcccata tacaatctct tagtggctag 660
gagaaataaa taaaagggcc ataattggtt gttctctttc agacataatt tagtagggga 720
caagaagtct gttcttcagt gtagtacctg gagatttact ctgggtgactg ccttttgagt 780
tatgggtgaa gtaaggatat gctttaccat aaccttgatt cattcaccct tgnattcatt 840
tctcgcccc gtcactgata tttccttgag catatatctc tgcctaacac tttagtaggt 900
gctatagagg atacatgaaa agtatgagat ctggttccat ccagtaagac attttaatag 960
agaagatcaa aatgttacct ggcagttggg gaataatctg acttcgttgg cagttggcct 1020
taacttctta atcattgatc caggaatatt tcaaccagag acacaacttt ctggcagaca 1080
gacaaattgt acaacaccaa caatatcctg gacctgaaa ttctgtttac ttcagtccat 1140
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ggatggagga gttattaaaa atgtctcttc tgatgaggta acaattagat gaaaccatgt 1320
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gtcagtagaa agcacacaag gttatgattt ttttaattac tggcttctga tttctttcac 1680
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gggtagaatt ttgagattaa tgtaattttt ccttttttgt taatttcagt cccctctcac 1800
tatgcttttg tccagaagga tcaagaattc taccatccct tgggtctttg tgtataaaca 1860
atgttaaata aaggtagact cagtctttta gatattagac agttttttta gtccatggga 1920
ttgtaaatat aaacattaac tttcctataa gaatattttg gctttgtaat ctatagcctc 1980
aaattggtat ttattatgga ttcactagac aaacagctgt ttccttattg tcttttttct 2040
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ttacagtttt tgaagtcact tttgagcctt catcaagctc tcattgtgat gggagggata 2160
cctttttgtt gttaaaagcc tattattggt aaaggccttt tatggaaacc aacttggaac 2220
acaaccttaa atgtggatgt atcagatttg gtttatccag ccatgggaga gaaaacaaac 2280
ctaagtttac tttacttgta catatacact acaatggata gtatatattg tgtaaaactac 2340
aatgtaaaac ctcaataaaa gtgcgctgta cttcttaatg tttattaaaa gatgtatttt 2400
tacaaaaaaa aaaaaaagg gcgggcccgt ctanaaggat ccaagcttcc gtaccncgtg 2460
ccttgcgacg nnatta 2476

```

<210> 1206

<211> 630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (169)

763

<223> n equals a,t,g, or c

<400> 1206

```
ttcatagcct tctccctgat acccctcccc agtgtcacat ttgaagacga gcactgagga 60
tgaggaacca actgaagaat atgaaaatgt tggaaatgca gcatctaagt ggccaaaagt 120
ggaggatcct atccctgaat ctaagtttca gatgaactcc cataatgant gatgaatttg 180
tgatgaggga taacctggaa gtggtattca cacattatgc tacaataaaa ggttctaccg 240
tggagaggat tttgacacat tcagtaacta atggaacaca cagtcaacat gaattcgcac 300
cttacatgac agaagtgatt cagggattcc tatgaataga aatgctgaga aggaacgcat 360
tttattgcag aagctaaaaa gctaaagtac cagtcaccta gagagaagga aattaatgtt 420
tcttaataat cctgttaaat gtttgattgt ttttggaatg tgttattgta aagatgtcat 480
gcaggacatg tatatgttgt ctggtgtaaa atgttaacga atactttgtt cagggctcac 540
tctctctttg tcatgaaagc cagctccttg tggcgaggta aagtggaatt ccaataaaga 600
aattccttaa atcaaaaaaa aaaaaaaaaa 630
```

<210> 1207

<211> 755

<212> DNA

<213> Homo sapiens

<400> 1207

```
ggtaacaaca aaatttggtc ggacatcaac aaataaagta aagtgtcctg tatttggtgt 60
taggcatagc atggaaaacc tttttgaaaa gaataaaatc cgagcatcca tatcttataa 120
gtggactcca gaaggaagac gcttggtcac tggagcttct agtggggagt ttaccctgtg 180
gaatggactc actttcaatt ttgaaacaat attacaggct cagcacagcc cagtgagggc 240
catgacgtgg tcacataatg acatgtggat gttgacagca gaccacggag gatatgtgaa 300
atattggcag tcgaacatga acaacgtcaa gatgttccag gcacataagg aggcgattag 360
agaggccagg tttatacaca atataaccatt ttctgtagtc cctattgtca tgggttaaatt 420
attctctaa gttattctgg gtgcagagat gcatgggctc tgtcagtttc tgggaaactt 480
tctgcacct ataaacacaa tatttttctt tgttttcaca cattcaccat ttgctggca 540
cctttctgaa gtagtggtgt cccggtatca gcctttgcaa tatgttagag atgtactgtc 600
tgccgcattt tgcactgggt ttctcttttc atttatgatt aataatgtgt atacgttatt 660
cctttttatt atctactgtg taagacaaga atatttcatt ccaaataaag aattcagttc 720
ttaattatgc aactgaataa aatctaaagc ctaaa 755
```

<210> 1208

<211> 600

<212> DNA

<213> Homo sapiens

<400> 1208

```
accaccctga acatgcctga gcttgtcata atatgttgag taccctaaaag atttgtttat 60
attgttaatc ttagggaaaa aaaattaaaa tccagtagat cagaacatca ggctttcaga 120
tacaaattga tttactgggt tttattttgc tgattataat atttggtata ttaaggtaa 180
tctagttaac tagatgctat ttcatagatt atattgaatg atttaaaact ttattttcaa 240
ggatagttta ttttaaatgg catattgaaa acatcattat taagatccag taggtaggac 300
atttattgga ttaaaatgaa gcatttatct atgtctttag gtgtcattgt tccctttctg 360
aattagctgt acatataagc cttcctttgg ttttaagtac tgattttttt ttaaaaaaaa 420
gagggactgt ttaccattct tccactgtgc tgttataaag ttgtatttga aaggtaatgt 480
tgtttttatt aatcttttgt cttaaaaataa tttaaagtgc tttgaatttt aaaacattaa 540
acaaatcctt aaataacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
```

764

<210> 1209
 <211> 783
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (75)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (230)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (246)
 <223> n equals a,t,g, or c

<400> 1209
 tgcctacgat tcccgcactg cccatgggga acgaatccta tatcgctgag cgcttggttag 60
 ggaatgtgga ctgtnaccct gagagtcgtc cttccctctg cctgagtcct tgagcgaaaa 120
 tattgaatag acagcaattc ctgaagtcta aacgcctccc aggactacgg aggattattg 180
 gaaagagaac aagcgaggag atacaatctt caaggactaa atggggaatn acttttttagg 240
 ggtcantaga tgattgatga ttgattacta taaactgata atatgaggcc aaaactaaaa 300
 gttggaagag tgagcaagta caatggtttg ggagaggcaa tgaagaacaa agaaggtgcc 360
 agcccytact ccagacgctg tggtagcact ggtttggcag gaaaaacaat catcatttga 420
 gagggccagt ggggaagccc tgtcctcatg gaaaagctat cttctttcgt ttacactttt 480
 catggtatta tgtctactga agaggtaaaa acaccaaatt tcagagaagc tcttaaattg 540
 cccaatactt caaagcaagt ataactggtg aagcgcttgg cattgatgtc agacacccaa 600
 tgcctatgat ttattttaatg cagtagcatt aaggaggatc ctatacgtga aggaacatat 660
 tttattttct tcctttatat tttttggtta aaatatcgtc attatagtta gcaatttggg 720
 atctggctta cattgggttg taaaaataaa taatagaata aagcaaaatc agaaaacaaa 780
 aaa 783

<210> 1210
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (561)
 <223> n equals a,t,g, or c

<400> 1210
 acccaatttr ggtatgactt ggaagtgcag aaacagargg atactgttag aaaawcctaa 60
 cawtgggtctc cgtgcatgtg ttcacacctg gtctcactgc ctttccctcc cacagacctg 120
 agtgtgaaaag actgagagtt gaggagttac tttgtggatc ttgtccaaat ttagtgaaat 180

765

```

gtggaagtca accagaccaa tgatggaatt aaatgtaaatt tccaagaggg ctttcacagt 240
ccacagggtt caaatgactt gggtaacaga agttattctt agcttacctg ttatgtgaca 300
gtgatttacc tgtccatttc caacccaaaa gcctgtcaga aagcattctt tagagaaaac 360
cactttacat ttgttggttaa actcctgata gctactctta agaataataca tgtatgtatt 420
cataggaaca tttttttctca atatttgtat gattcgctta ctgttattgt gctgagttag 480
ctcctgtgtg cttcagacaa aaataaatga gactttgtgt ttacgttaaa aaaaaaaaaa 540
aaggggggggc ccccttaaaa naacccaagc tttac 575

```

<210> 1211

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 1211

```

gggcgcggc ggaccctcgc tgccctacct ctctcgcggg ttagtgcggg gtcgggctcg 60
gccagtcctg gccagctccg ggagagcctg gcccgaaattc ctgcctccac cctctttctc 120
gccgcgaagg tgactgttcc ttttgcccca gccctctcag acccgccccg gattcccagg 180
catcgggaga cgcggaaaagg artgggggtct ggtggaggcc ccgggcgtat cgctctccag 240
gccgccctcc gcgggcctgc cccggccacc gctttaacgt cggagagaag gaattgggga 300
gaaargttta agagcctgcg amttcgttgc tgaacttttc cccccaaga caggcttccg 360
aaagctgctg cactggaggg atccgggacc tcagactact cgggtttggc cctggcatgt 420
gtgggagcag tttttattag agagaatgct caatttgcaa gttaatttca agtcttcanc 480
cacgtcagga aaaaaacatg aaggaattaa aggangccan gcccgnccaa agataacaag 540
gcgtncaaaa acttggaat ctataaaccc tggcc 575

```

<210> 1212

766

<211> 523
<212> DNA
<213> Homo sapiens

<400> 1212
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caccctgccg aggtcggagg tggccatgag gagatgggct gtcgcttgct gtctgagctt 120
ccatccacga atgggtgtggg agttcrggat cttcccagac attstttctt cacctttggg 180
aagatggagg gggacggtgg tggcatccct tgcagtctgt gctgcgctga cactttggag 240
aagygtctcc catctgtaga gcagaatcct ctttggagaa atgcagctgt ccttgacctt 300
gaggcagaag gcgtytccat cctgggcatc tgytgcccc tccccatctg gatgcctcat 360
cttgctgtgt cattaatggg aatcttattc taacagcctc ccatgcatca actctatcag 420
tccccgaata ttatctttaa attttgtcag atcgctttgt gggtttctgg ctttttctct 480
tttctatcaa gctattcaaa gcaaaaaactg aaagtgaatt tag 523

<210> 1213
<211> 752
<212> DNA
<213> Homo sapiens

<400> 1213
gagcccccttg gccagctctt tcttggagag agaaggtgct tctttgcaa aacctaagcg 60
cctaattctgt tgacatccct tggggctcta gtagaagggc ccccttcttt gatgcagtta 120
tgccgcctta gaattcggaa gtgttttggg atccagcagc atcataagat aaccaaactc 180
gtcctcccag aggatctgaa acagtttctc ctacatcttt aaatgcatct aggggaatgga 240
ttcacaaacg atgtgaaaac attattgagt gttgtagcca ctagaatttt aaaatcaagt 300
tggatttata gagtttgact agttttttcg attagatttg tatttgttat aaacttgttt 360
atggagtttg actaattttt tctattcaat ttgtatttgt taaactcaag ccagggtkga 420
aagacactgc atacgtttgt attattagtt agaaggcatg aagacttttt tccctgcwtg 480
gagagtgtca taagtatttg ttttgcata ctactgcatg ccaagcactt tctgcatcat 540
ctaatttagc cctcacagcc actgggtcaa gatgtccaat tttccagagt aaggatagag 600
gagtcaaat caaatacagg ttttctgaca ttaacttatg tgatgacttg atcgaggcag 660
gcttttccag catcactgtc ctggttccat ctctgctata tgggaatgaa aataaagaaa 720
catatttctt ggcttgtcta aaaaaaaaaa aa 752

<210> 1214
<211> 1088
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<400> 1214

767

```

gcnccgctc gcccggaacc tgaggetgct gggcccaccc tcccggaacc gtccgaccct 60
cggtggcctc ggctcgttct gccatctccg gtcctaccct ggggcggagg gtggaaggca 120
gcttccgctc aagaggagg ggctgcggtg gccaccngg cggagscga gttattttac 180
caagaaaatg gtttgcacga ctttgaacat atactatcca tgctgatggg acaggatcca 240
atatgaatat aaatgatgga ggaagacgac gctttgaaga taatgaacat acattacgga 300
tatatcctgg ggctattttca gaagggacaa tctactgtcc gattcctgcc agaaaaaact 360
ccacagctgc tgaggtgatt gagtctctta taaacaaact tcactctgac aaaacaaaat 420
gttatgttct agcagaggta aaggaatttg gtggagaaga atggattctc aatccaacag 480
attgtccagt tcagcgaatg atgctgtggc cccgaatggc tctggaaaat cgcttaagtg 540
gagaggacta ccgcttcctt ctgagagaga aaaaccttga tggatcaatc cattatggta 600
gcctgcagtc atgggtacgg gtaacagaag aacgtcgcag gatgatggaa cgggggtttc 660
ttccacagcc tcaacagaaa gactttgatg atttatgtag ttacctgat ttgaatgaga 720
aaactctctt agaaaaccta cgaaatcgct ttaagcatga aaaaatttat acctatgttg 780
gcagtattct aatagttatt aacccattca agtttcttcc tatttataac cccaaatatg 840
tcaaaatgta tgataaccac caactgggaa aacttgagcc ccacatttat gctgtggctg 900
atgtagctta tcatgccatg cttcagcgca aaaagaatca gtgcatcgtg atttcaggag 960
agagtgggtc tgggaagact caaagcacia actttcttat tcaccacctt actgctctca 1020
gtcagaaagg atttgccagt ggagtagaac agattattct tggagctgga ccagtacttg 1080
aggccgctc                                     1088

```

<210> 1215

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 1215

```

tccgtacttg aggagacggg acacacagga caagctgcag gtggtgagca ggttcacctt 60
ctattttgaa gacccgcttc ttcttcaggt acctgatctt gaaaacgaac cteccctttc 120
aggctcttgct tccctcaac ccagacaccg actcgcccaa ggtcttcca gctggctgag 180
ttggaacctg cattttttta ccacaaggaa aagaagcca gagcttacca agaataatat 240
tttattgact tgggaatgag ttttggaatc tgtattttta acaagctgcc cagtgaaaac 300
catttccctc tcgtcgtggc gcagttccag aggntgcgcc attntttccc aggtcaacag 360
tctgtgtcc ttgggggagg ga                                     382

```

<210> 1216

<211> 825

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

768

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (735)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 1216

```

cncactatag ggaaagctgg tacgcctgca ggtaccggtc cggaattccc gggtcgaccc 60
acgcgtccgg cccgacgtcg cctccggcta ggatggcccc tccgggcccc gccagtgcc 120
tctccacctc ggccgagccg ctgtcccgca gcatnttcg gaagttcttg ctgatgctct 180
gctccctgct cagctccett tacgtcttct actgcctggc cgagcgtgc cagaccctgt 240
ccggccccgt cgtggggctg tccggcggcg gcgaggaggc gggggccctt ggtggcggcg 300
tcctggccgg accgaggagg ctggcgggtg ggccggcggc ggcacagaga aagcgctcc 360
tgcaactgcc gcagtggcgg msgcgycgrc sgcccgcgcc ccgcracgac ggcgaggagg 420
cggcctggga agaagagtcc cctggcctgt caggggtccg ggcggtccg gggccggaag 480
caccgtggcc gagggcccg cggggaccct ggcgctgctc ctggacgaag gcagcaagca 540
gctgccgcag catcatcatc ggaktgaara agggcggmacc gcgggcgctg ctggagtctc 600
tgcgcgctgca ccccgacgtg cgcgcctggg gcgcccagcc ccaattcttc gaccgcagct 660
acgacaaggg cctcgccctg taccgggacc tgntgcccag aaccctggaa gggcagatca 720
ccatggagaa gaagnccagt tattegtcaa gcgggaagcc cccgcgcgca tcttgggcat 780
gttccaagga caacaagctc attcgttggt tgnccgggaa ccggt 825

```

<210> 1217

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

769

<222> (433)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (488)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (502)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (507)
 <223> n equals a,t,g, or c

<400> 1217
 gtgaaaaaaa actatagtag acctggttatg agactgtcac tttgtacatt gttgagtttt 60
 tattatccac ctgtagacta gaggggacca tgaattcttc cactttcttc aatcccattt 120
 tctaccatgg aatcactaag agcaaagtct gctctgttcc tgaagctcta taagctacag 180
 atggataact caatgtaaat ttcattggaa aacactcatg cctaagggtgt gggccactca 240
 gagctcacca gtatgttcaa cactataact agagacactg aaactgcaaa ccaggacaag 300
 aaattgacaa cttcacgctg tagacagctt ttcccaagat gtcagaacaa gacttcctac 360
 catgatgagg ctccctaccc tcttaatttg cctagctcat gcctgcctct ttcacttgca 420
 ggataatgtt gnnattagaa tttcacagga agtatcttct gaagggttagc ttaacagaag 480
 tatcagantc tatgatata cntaccnaaa tttttac 517

<210> 1218
 <211> 774
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (63)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (67)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

770

<222> (753)

<223> n equals a,t,g, or c

<400> 1218

```

ccgacttact ttagggaang ctggtacgcc tgcaggtacc ggtccggaat tcccgggtcg 60
acncatncgt ccgaccaccc aaggggtgagg agaggggctg gaagccctgg gcattaggag 120
aagggagtggt gtgctggcat ggacatgact ggatagaatt ttctcaggag ggagcttggt 180
ggattttgaa ggtaaaactt tctgggttta tcatgtttta attttagaga caggagtgta 240
tgaatcatca ccggttggtc ccttatctaa ctccataaaa gtgggaattt caaaagaaca 300
cctcatccaa ggagctgggg cagacttcat tgattctaga gagacctgtt tcagtgccta 360
ctcatccctg ccctctggtg ccagcctcct taccatcacg gcttactga ggtgtagggtg 420
ggtttttctt aaacaggaga cagtctctcc cctcttacct caacttcttg ggggtgggaat 480
cagtatact ggagatggct agttgctgtg ttacggggtt gagttacatt tggctataaa 540
acaatcttgt tgggaaaaat gtgggggaga ggacttcttc ctacacgcgc attgagacag 600
attccaactg gttaatgata ttgtttgtta gaaagagatt ctgttggttg actgcctaaa 660
gagaaagggtg ggatggcctt cagattatac cagcttagct agcattacta accaactgwt 720
ggaagctctg aaaataaaag atcttgaacc canaaaaaaa aaaaaaaaaa aaaa 774

```

<210> 1219

<211> 556

<212> DNA

<213> Homo sapiens

<400> 1219

```

gttttagcaca aagaaaagcc atcttggtgc aaagaggctt taaattacta tggactggca 60
gtcaatcaaa atccaggaat tgatgtctga tgatcagaga gaagcaggtc ggattccacg 120
aacaatagaa tgtgagcttg ttcattgatct tgtggatagc tgtgtcccgaggagacacagt 180
gactattact ggaattgtca aagtctcaaa tgcggaagaa ggttctcgaa ataagaatga 240
caagtgtatg ttctttttgt atattgaagc aaattctatt agtaatagca aaggacagaa 300
aacaaagagt tctgaggatg ggtgtaagca tggaatgttg atggagttct cacttaaaga 360
cctttatgcc atccaagaga ttcaagctga agaaaacctg tttaaactca ttgtcaactc 420
gctttgccct gtcatttttg gtcatagaact tggttaaagca ggtttggcat tagcactctt 480
tggaggaagc cagaaatacg cagatgacaa aaacagaatt ccaattcggg gagaccccca 540
catccttggt ggtttt 556

```

<210> 1220

<211> 148

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<400> 1220

```

gtgttttaatg atctgtaaaa ttagatattat cttcttttat tatgaatgtg attgtaagaa 60
acaccctaac attctctaac ttttgaaaat gaatattttg tatttctaag gamcaaggaa 120
aatatttttt aagccmatgt antacaca 148

```

<210> 1221

771

<211> 329
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<400> 1221
gggtttttcgc agcgccgggt gtgttcgggt aggtgttgcg ggcaaggaag taggcagcgg 60
cccctgagca gccgcctcgc tccggcattg cggggacacg gcggggctga ggccacgaga 120
gcaggggcccg agccccggcgg gccgtggtta cggtttttctt gcaactgaaaa actgaatccg 180
gccccgaagcg acgtgcactt tatgggtcccc acaccactcg gttaactaag aaaagacccg 240
ggcgaatgga cctaacgcaa cccgggtgck anagggcccg gtccagcagc ctctggggcc 300
cartgcgcag ggcaactgcgg gccgattgc 329

<210> 1222
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<400> 1222
ggcagaagct tgaggtcctg aacgtgctac gcaaccctt gtctcgtgtg gatggggcgc 60
tggccgcccc ctgtgacctt gacctgcagg ccgactgcaa ctgtgccctg gagtccctggc 120
acgacatccg ccgagacaac tgetctggcc agaagcctct gctctgctgg gacacaacca 180
gctcccagca caacctctct gccttcctgg aggtcagctg cgcccttggc ctggcctctg 240
caactatcgg ggcagtgggt gtcagcgggt gcctgcttct tggacttgcc atcgctggcc 300
ctgtgctggc ctggagactc tggcgatgcg agtggccaga agccgggagc tgaacaaacc 360
ctgggctgct caggatgggc ccaagccsgr tttaggcttg cagccacggt acggmagccg 420
kagcgccccc aagccccaag tkgccgtgca ttcttgcccc tncacttccc nactattgag 480

<210> 1223
<211> 1299
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1254)
<223> n equals a,t,g, or c

772

<220>

<221> misc feature

<222> (1267)

<223> n equals a,t,g, or c

<400> 1223

```
gctggccaag gcgctgcggc ccaccaaagt catcttcctc aataacacag gcggcctgcg 60
cgacagcagt cataaggtcc tgagtaacgt gaacctgccc gccgacctgg acctggtgtg 120
caacgccgag tgggtgagca caaaagaacg gcagcagatg cggctcatcg tggacgtgct 180
cagccgcctg cccaccact cctcggccgt catcaccgcc gctagcacgc tgctcactga 240
gctcttyagc aacaaggggt ccgggaccct gttcaagaac gccgagcgaa tgctacgggt 300
gcgcagcctg gacaagctgg accagggccg tctagtggac ctggtcaacg ccagcttcgg 360
caagaagctc agggacgact acctggccyc ctgcgcccgc ggctgcactc catctacgtc 420
tccgaggggt acaacgccgc cgcattctga ccatggagcc cgtcctgggg ggcaccccg 480
acctggacaa atttgggtg agctccagcc gccagggcca aggctccggc cagatgctgt 540
gggagtgcct gcggcgggac cttcagacac ttttctggcg ctcccgggtc accaacccca 600
tcaatccctg gtacttcaaa cacagtgatg gcagcttctc caacaagcag tggatcttct 660
tctggtttgg cctggctgat atccgggact cctatgagtt ggtcaaccac gccaaaggac 720
tgccagactc ctttcacaag ccagcttctg acccaggcag ctgaccttca ccatggacac 780
tacaggccct ggaatggcca gggaggacca aaagccatgc cagctgggca tgacccagg 840
cagcagccca caggctgaag ggggcttgtt ggctgagtga tctgcagagg agaaagcagc 900
cccagctctg cccagaggag gcgctgaagt gggacaagca caggaaagaa ggggaccagt 960
ctaggacccc aacttgactc actctaaagc tacaaccaa tggccttcga ttttcaacct 1020
ggggattagg ggaggggagg gtgccttcca gggctctact caggactaac cctaagggtg 1080
agctagtttc tgtgcctctg tgctatgttt tgaggctccc ttacccaaaa taatacccct 1140
gcctgcgtga tattctacca ttcattttaa ttctttggg tcttgagtt tttcaggagg 1200
ccttgattaa aatgcaaata cttgtctgag aaattccgct tacactttga aaanaaaatt 1260
aaaattnacc cccttggaag caaaattttt ttttttttt 1299
```

<210> 1224

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1047)

<223> n equals a,t,g, or c

<400> 1224

```
tccagagaga aaataggccg tgtctcaaag aaaggttctt ggtctatgcc tctggtctgt 60
gggctggcar ggcaaccata ccatacyccc gccagtcctc ggctcctgct gcaaagttgg 120
catgtttcac agggaaactt ttggaagagt ggctgcttat gagattccaa aatgaagtgt 180
tgcccaacac cgctcatggc catcctggat tttcccagtg gcttcccttc ctgctcgcct 240
ccctgaacag gggagaaagc ttaacctctc ttctctctc caaacctttc accttgaatg 300
ggtaatgttt ggtgggggct gttccttctt ggagaagcct tgagtcggac cattttgaga 360
tcatggagga aggatgaaga agtgaaaatg acaataatga ctctcaagag gctggcgatg 420
tgacatggca aatgtagaac tgacttaaat tgaacaaacc ctactgagc acctctgatg 480
ttgagcacct gctgaatact gagcactgaa tgggggaggg ggaggggagc acgggggtgag 540
tcaacctggg actcgggtctc agggatatgc ctaccaatag cgggtatcgt aaggcatgta 600
```

773

```

cccaaacata acggatgtaa ggcagaaagt gatcggagaa ggaatgagaa agtgtgcgtg 660
atgttaatat aaagtcatat gcagctagag cagaccagg aaagctttct ggaagagatt 720
gcatctgagg aaattcagga aggatctttg tagattgggg ggagattcta aattgaaggg 780
gtgatrgggt gaggggccag agggaagtct gctgtgttct catgtaggat gtcagccctc 840
cctgcaactt ctcttttttg ccaatgtctt ttcactttcc tgacccttta gaatcatccc 900
cagccagacg caatcatgga agttgcctta ttgtcactgg ttaagaactt ggcgagattg 960
aagggtcttt gttattgttg ttggatatat ttgtttccca taaaagcaca tcatttcaac 1020
cctaaaaaaaa aaaaaaaaaa aaaaacncgg gggggggccc gg 1062

```

<210> 1225

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<400> 1225

```

aaaaatggga tgaaccttgg tataacccaa aaacagaaca tcaaagaaat agcagtaaga 60
ttctgagatt tatttcagac ttctttgctt ttttggttct ctacaatttc atcattccaa 120
tttcattata tgtgacagtc gaaatgcaga aattttcttg atcatttttt attggctggg 180
atcttgatct gtatcatgaa gaatcagatc agaaagctca agtcaatact tccgatctga 240
atgaagarct tggacaggta gagtacgtgt ttacagataa aactggtaca ctgacagaaa 300
atgagatgca gtttcgggaa tgttcaatta atggcatgaa ataccaagaa attaatggta 360
gacttgatcc cgaagaccaa caccagactc ttcagaagga aacttatctt atcttagtag 420
tttatcccat cttaacaact tatcccatct tacaaccagt tcctctttca gaaccagtcc 480
tgaaaatgaa actgaactaa ttaaagaaca tgatctcttc tttaaagcag tcagtctctg 540
tcacactgta cagattagca ngttccaaac tgactgcact ggtgaggtcc cggcanccaa 600
cnngcacc 608

```

<210> 1226

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (850)

<223> n equals a,t,g, or c

774

<220>

<221> misc feature

<222> (882)

<223> n equals a,t,g, or c

<400> 1226

```
atccatttta ggtactctac tgactttttc cttcacttgc caagcccttt tattgttcac 60
tgtttagaaa atagagaagg tgagacagct gggggaaaat gtggagtaaa tgataatcaa 120
atggttgaatt ctaaaagtct ctacattttac ctagggttggc tttctcccc agttcagaag 180
tttccagctt ggccaatcat cagaatcact tgaggaactt agaaagaact ccctggctgt 240
agctcctatg taggttttagg ttgagactct ggattccaca atttttaaaag gttaccatct 300
gagggtttctg atcatagtct acttttgaag cagctgctgc trtttcttta ttccattgaa 360
cacceckggaa ttgacataat tttatctatc agcatttctc cccttttagt ttatttaata 420
attaaccggg tctccagggc agttttcata tgaccatgtg tatattcact gctcacgaaa 480
aagtttaatg ttagattacc aaatttaata tagttacaga attactgcat aagggttcc 540
cttcttggag actcttacc agcatgggaa cagtgatctg cccacatgac aggggtggtat 600
gccaggcata gttaactgct tttggttggt aggtactcat cttcctttag ttacccttag 660
ttatgtggca cacatgtcct tattgcctag ttcgtcatcc acactttgga tcttgtgaaa 720
atgctgttag tatccaacct taaaatatat tagtatatgg gtttttatta aaagaattac 780
tttgaatttt ctatttaatt catatgtaaa taaaggaaca tttcatttca cttaaaaaaa 840
ttatatcagn tattaagctg ggtgcaagtg gctcatgcct gnaatccaa 889
```

<210> 1227

<211> 739

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (678)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<400> 1227

```
ggcacgaggg gaaatgcttc tgccgcaagt ctactctcac gacccacctg aggaccacaca 60
caggagagaa accgtatgaa tgtaatgagt gtggaaaatt cttctctcgg ttgtcatatc 120
```


775

```

tcaactgtaca ttatagaact cattcaggag agaaacccta tgaatgtaat gratgtggaa 180
aaaccttcta cctgaattca gccctcatga gacatcagag agtgcacaca ggagagaaac 240
cttacgaatg taatgaatgt ggaaagtatt tctcccagtt gtcatacctc actatccatc 300
atagaactca ttcaggagta aaaccctatg aatgtagtga atgtgggaaa accttctacc 360
agaactcagc cctttgtaga catcggagaa tacacaaagg agagaagccc tatgaatgct 420
atatatgtgg aaaattcttc tctcaratgt catacctyac tatacatcat agaattcatt 480
caggagagaa gccctatgaa tgtagtgaat gtgggaaaac cttytgscag aattmagccc 540
ttaatcgaca tcagagaaca cacacaggag agaaagccta cgaatgttat gaatgtggga 600
agtgtctctc tcagatgtcc tatctcacta tacatcatcg aattcattca ggagagaacc 660
tttgaatgta tgagtgtnga aagccttctc tcnggtgcat acctcactgt acatatagac 720
ccttcagggn gaaccnatg 739

```

<210> 1228

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 1228

```

ctttgttnca ttgcccattt tgaaaaaggg aattatttct cagtctttca aggcttgaga 60
ctaatatagg ccattgtgat tcaggaagaa acccaagggt ggaggggtgg atgagtaccc 120
tctgaaaaag ggaatttgct ggtgaaaaga ggctggatct tgtggaagac tgtcttgat 180
ggggaagtac tacctggaga tttcaaattc acttggcctg caaacaacag agttatccgt 240
atcttccaca tgtgaatgtc attgcaaggg tgactctaga caaactacaa accgatggac 300
cgtcaagctc cccaggagcc ccttggtatg cagcgttgct tcagagtgtt tctgttttct 360
ggaattcctt gttaggggaa tttaaagaag aaaagaaaaa cttgaattgt gttgaattac 420
tgtatctttt actttttttt tttgaaaaga taaacttgta aatagagtga tttgaaatac 480
taaaaaaaaa a 491

```

<210> 1229

<211> 1596

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 1229

```

cactggcggg tcgcaacgct gtgggcgttc caggaggtgg tcgtggcgaa cctggcngct 60
gcatgagga aactgaggcc ctgagaattg actcattcag atcacttccc atgatcacgc 120
agctgagcag tttccaatac agaattcaga tttgggggttc cctacttcsa atccaggtct 180
ctgtgctcca cacttgtctt tcgtgctcca tgtttgaaga aattaatatt gtggaagaac 240
agttttaagg cttagaggaa cttgarttag gatccgtact tggcagatga ggaaattgat 300
tctcatggat gtaaattcac tgtttgaggc cacaacaggg catcatggag ggaggcttga 360
agaggaaaca ctctgatttg gaagaggagg aggagaggtg ggagtggagt ccagcaggcc 420

```

776

```

ttcagageta ccagcaagcc ctgctccgca tctccctaga caaagtccag cgccttgggc 480
ccccgagcac ccagcctccg caggcatgtc ctcattccata acaccctcca acagctgcag 540
gctgcacttc gcctgggtcc cgccttggcc ctgccccccg agccctcttt cctgggagag 600
gaggatttct ccctgtcagc camcattggc tctatcctca gggagctgga cacctccatg 660
gatgggactg agccccctca gaatccagtg actccccctg gcctccagaa tgaagtgcc 720
ccccagcctg atccagtctt cttagaagct ctgagctccc ggtacttggg ggactctggc 780
ctggatgact tctttctgga cattgacaca tctgcggtag aaaaggagcc tgcacgggcc 840
ccaccagagc ctyctcacia cctcttctgt gccccagggt cttgggagtg gaatgaactg 900
gatcacatca tggaaatcat tctgggtgcc taaaactgtg atagagggga tcgatccttc 960
ctcatgtcat ctctgggtggc ctggatccct gaatgcaact ctgggtgtgt gtttttgtgg 1020
gggctcgaag cagtgactat ggcctccttt gttccctatt cagggttcca caaactgtct 1080
tgcattgtgt tgtgtgtctg gttaccccg ccttctgtga aggtgggtct tcctgaatta 1140
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cacatttctt ccacctttcc tgctagtctc cactccccctg tgaccactgg ggcctcaggg 1260
aagataaaga aagctgggcc tgtcgaagga tgacagggat gtgctgccag gttgctatag 1320
aaaccagggc tctgcctctt gcaccttgag ggggtgggag gggctgggtg cctccctcca 1380
ggctgaaccc cacttctctg gcaggacccc agtctcagca gcctcctgat ttcataacca 1440
ggccggacca cgtgcaatag ggtggaaacc aaactgctcc atgccgggtt atttaaaaga 1500
aaggcagagt ttgtggtggc tttttttttt ttttttggat tgtttgtaat ttttttaaat 1560
aaaagtattt tggaaggaaa aaaaaaaaaa aaaaaa 1596

```

<210> 1230

<211> 580

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<400> 1230

```

cctcgagtag cacttttagtg aggctgtaag tacaggaatt attcttacct cacagacaga 60
tgagcagttg ggcttctaaa agataaagta agctccctga aatgacacag agaattcattt 120
ctctatgaaa gatcagggtc agcatccagg ttttgcaaag cccaactcag tgtacttttc 180
atttcatctt acgttgctta agaaggccag gcatgtaaca ggtaccatct gctagcgatc 240

```

777

```

actgaatgca ccttggttag cggtgggggg tgtagaagat gatgcggggt caccaagaca 300
gtacattkga gaaactgccca ttctttccct tagrtgctga ctggaaagct tctagggccy 360
awctgtgtgc cttattcagg grgacycata aagatcttgg aaagtgtaaa tgaacatgtt 420
ttatgagtag aaatgggtcca caatttagca gatagaaagc ctgggttcta gccccagctc 480
tgccattagc tgtgtgatca tagataaatt ctttccctc ttgaggtttg aacatnactg 540
actctacaaa gaancaaatt ggntctggaa gtggatanca 580

```

<210> 1231

<211> 1676

<212> DNA

<213> Homo sapiens

<400> 1231

```

ggtttcaaat atgtggtaaa attctgtgac ctgccatatt ggatttaaaa cttcatcttc 60
atcttaaaac ttcattcttt gaaatctctg aaaatcatta gtgtgcatgt attgaacacc 120
agtctttatt ctgtaattaa caccacagat ttctttcccc tcaccttatg ccattccatct 180
gtgtgttttg tttccagtat gccatgtgga agagggtgtga gcctttcttc agcccaagaa 240
ggaaacttta aacataatttg cacaataaaa tttcaaatta aacatttcaa aaaggggtgt 300
cagactagaa atacatgctc ttctgaaatt ccattgttga actgtaactc ctgtcatata 360
taccagtggt atgaggaaaa gtctctgcag ttttcacact gcccttctgt attgctgctt 420
ggctgtgctc tgttgttgga actgaaatat gaaattttta ctttgaagta tgttaatgtc 480
aaagttgatc gtattaagtt tkgaaatcct ttgaggttta tctaataagt gtgttggagc 540
ttctgtctct tctggtaata ctgtaccctg ttgaaccaag aacagtttta ttgtttgttg 600
gacttcgttg gttttctaat accataacct gtgtccctgt gcagtcaggg ggtcacttct 660
ttaagatcat gtataatacg gcccgtcata tacacgtaga tagagccatg tgattccaga 720
aattagaaga ctggatctgt ggaatccata catgttaaaa ttttgccaaa atgagatgat 780
taaaattttt gtgagtttta taaactgttg cagttcgctt tactgatttt tcaatgataa 840
tcacttttat gggaaggggg cttaggaaca aaaaactttg ccaagaatgc aaaatcttac 900
tggtttttta agcttgaac agttgtgtgt aaaactttta tatttgaaac gtaaactcac 960
cctttctgcc actgctttca ttgcactttt cataccaagt tctctccaac gtggtgtctg 1020
aaagattttt attatataca ctctttatgg aattcaatga agtgtggtta tgctgtgttt 1080
ctgaagtttt taggcttttc ttcatgtggc tgcctaatac tagtgtgttt ctataacttc 1140
agatgattca aaagttagt gcttcattgt agcaaaaaat gtatataact cataatatcc 1200
tacatgtagt attcaaaatc aattattaat aaccaataaa ggactcaaca cttttcatt 1260
gcgtgttctt ctttaagaca cctaaactca tatctcataa tttctgaatc cgcaatccct 1320
attcattaat tgattacagt ttttgagttg ttggaaagcc tagccctctc agattcaggg 1380
ttcagaaaga attaccaggt ctggtaaaat tgtctgacta gcccttagcc tcagaatgg 1440
caacttcata gtataagcaa agaaagtggg gatctcatat agtcagcttt ttcattgaaca 1500
ttaattcatg gtgaatgcac tcacagcaac caaaatccaa aaaaaaaaaa tgttcatcta 1560
aaaccttaaa cattagcttg gctcattgag ttcttggtac aacctgcttt tcatatgaca 1620
cagtatcaaa catgatttca gatgaaatgg gtggtgttaa tattgtgtta aagaaa 1676

```

<210> 1232

<211> 394

<212> DNA

<213> Homo sapiens

<400> 1232

```

attacaggca tgagccactg tgcccggcct tctttctttt ttaataagtg tatgtatctc 60
aaagccattg ccttctctag aaatctgttt ctctgttctg gaagagccta taaactttgc 120
cttcagttgt ttttcttttc aaaagggaac accagtggta gatgattaac tcttatttat 180

```

778

```

ttttaaaatt taatttggat ctatagtcag tatctgagat ttataggatg aacttttggtt 240
tacaaggaac agtgtagtta aaaagttagg gtgcctatgt tcttatgtaa tcatcaacat 300
gtttgttgta taatcatcaa cttttttctg aatgcaatga tgaacatttc aaacaataaa 360
tgaaaatgaa actaagtatc aggaagtagc cagt 394

```

<210> 1233

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<400> 1233

```

cttacatcta ttttgattga cttgaaataa aatttaacac ctcaggggaag gcaatttctca 60
tgtgttttga attatactga gcattaattc ttcaggataa ttatagactt ggaaagggttt 120
aaccaggtct cccagtcctat gctgaagttc ctttaagtga taggaggaac tcataatcta 180
caaggcaacc caatccattt ggtgctacca tcgattgtta taaagcccat ccttgggtta 240
aaatctacta tttacagttg tattttaatga ccttaattct gccctcaagc tatataaaat 300
ttggakctgt kttctacatr ataatctttt agatawctta aggtagttag tctatcctct 360
cnacccttcc cctcacagtt tttccaccct ttggagataa atatccttcg ctattccaac 420
tatttctcat atggtatcat tttaatcatc ccnattgctc cctaaggatg ttaaactttg 480
ttnatgtccc ttccaaaatg t 501

```

<210> 1234

<211> 361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

779

<400> 1234

```
cagccccggc gtcgcgcccg ctgccccctc ccccgggggc catgggggag cccccgggct 60
accggccctc agcttggttg catctctctc accagctgcc ccgcgcccac ttccagctcc 120
gcccggtgcc cagcgttttc gcgcccaga gcaggaatac cagcaggcct tgttgctggt 180
ggcggccttg gcgggccttg gcttgggcct gagcctcatt ttcacgctg tctacctcat 240
ccgcttctgc tgctgccggc ccccagagcc ccccgggtcc aagatccctt cgccccgggg 300
aggctgcgtc acctggagct gattgtcccc ttntcgnccg ctgcactggc attggcatcg 360
g 361
```

<210> 1235

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (548)

<223> n equals a,t,g, or c

<400> 1235

```
caaaaaaaaaat aaaaaagaac agccttttta ggccacagtg acctgcgcaa tgttttatatg 60
ctttgaccta ctaactttct cctaactaaa tatttgattt taggagagtg tttaaataaa 120
ttacagtatg tctatatgat gaaatgttat ttgtccatta aaattttgtt tacaagata 180
atttttattg acataaaaaat aactttaatg taatttatgt tgaaaaagct gaatacaagt 240
ctttatatag agtaatatgt gagctgtgtt caaaaataca taggaaaaga ctgataaaat 300
gaaatatggc aaaatgttaa tagttttccc tggaatagga taataggcaa ttttaaaaca 360
gactccttta aaaaaacaaa caaacaacaaa aaacatagac ttctttatat cttttgagct 420
ccctcccttt tattatgtaa tgaatatgtg ttgcttttgt aataggaaaa taataaagtt 480
aaaatttcaa ctgcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaanccn 548
```

<210> 1236

<211> 866

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<400> 1236

```
tgagttcctg tgtgcctgtc acccagcccg gccacaagag gtgctggggg cagtgtccac 60
accccccttt cttaggacgc ctgagtctca gatgtgactt atagggtatt tcttatggca 120
agacagttaa aacaaacttc agcgtctcgt ctgtccttct atggctgtgg cttctgatgt 180
tctaattggc ttctcgtcag ccggggctga gnaacaaaat aacatagact gtggggctta 240
```

780

```
aacagcagaa acttacttcc catgggttctg gaggttggga gtcttggatc accgtgtagc 300
atggtcaggt tcctggtgag ggtgggattc ctggctaacg taacgaaggc tccctctcct 360
gataccgtgt cactgggggt gaggcttcaa cacaggaatt ttggggggac acatcagcat 420
tcactccatc acaggtggtt agccctttaa tccacgggaa ttttgttggg gggtgtgtga 480
gatacgggtc taacgttttc tttttcaaat acgtagccag ttgtcacatc atttattgaa 540
aaaggaatct tttctccacc gactgacatg aaatgctacc atcatcgtaa ataaaaattcc 600
cgtaaatact tgctgtctct gctgtctcag tcctgactca cgggctgagt tctctttctg 660
cacagtagca ctggcattaa ctgtgacagc ttacacagcag gctccctccc cgaggccggt 720
cagaagcatt cctcagcggg tcctacacgt ttctctctccc atgtcaagtt taggaagcag 780
tgtcaagacc cacagcagtc ctgctgggagt ttttaagggat gcacgggagt tatggggaca 840
gtttgggraa attgacattc atgtgg                                     866
```

<210> 1237

<211> 799

<212> DNA

<213> Homo sapiens

<400> 1237

```
gaaaagtgtg gaggctaggg caggcagggt gttaggactg aagggttgcc cattctgctg 60
cctccatctc agctccagct ccatccccct ctccacagaa agcagttggt gacacgaggt 120
tctatacttt tcttctgttg ctctcttgac ttaacgtgaa aacagggtat atttgaacaa 180
actgtctgtc ccaggcaggg gctgggcagg gcctgtgtgc cttgctcagc ctctgacag 240
gacacttttg ttgcacttag aatttacatt ttaatggatg taaaaacaac tgtgagagat 300
gtctgggcct gcagaagtc agcattgctc aaaaaagcgt gtgttctagt gaacattttc 360
atatatatat attggttata gcctgttaaa atattttctt ttttgtatta tttatcccc 420
tacattatgt atttatatga gggaaaaaaa ggaaaaaatt gtactttttt agtatttacc 480
tgttacaaag gacattgtgt ttctgtcat gtaaaaccag ctatttttagt tactattgta 540
ctctagaaaa gagctgtaga tttatgttaa actcgtactt acgaacaatt gtaattagtt 600
ctaaaaggca tgaactcagc tcctaactgt cactgtatag tcctgaattt gtagaactag 660
agttaattcc ctcttggaac tttctttggt ctctcagtagt tacttttttc cttacctaaa 720
agggttgtct gtcaacaat tcttgaataa actttctggt atcaatttta aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa                                     799
```

<210> 1238

<211> 719

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

781

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (675)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (700)

<223> n equals a,t,g, or c

<400> 1238

```

ggtattactg gagaattgtc catatttaac ataatttaac tgtctttctg aaagaataaaa 60
gaagttttta tttttatttt ctttaggtag aacaaaaccg aataaaacta cttaatgata 120
aagctgttgc tacatcacag cttcagaaaa aacttgggca gcttctttac ctaactaatt 180
tggagaaggt attgtttcta agacatgcta ctttttccta tgctgcatta tcataaacca 240
ctttagtgc tcctttcata attaatggtg caaattggtg taattagtat ttggtgttat 300
atgagtcaag aacactacct atgtctctac aatagcttcr agatcacaaa agaattattgt 360
atctatagaa atttattatg cagatgatat agaaggcatg cactcgatag tagagaacaa 420
tgtaaatgga ctgtagttca aagccttgaa tagtaaaagt attaaaacat atctcgggtga 480
aactggcata atgcaattta tcacatgcat tcattcatca atacaaaaat atggtgnaat 540
ttggtatttg aaactgaagt gtggttcgaa agctactaaa tcagagacat ggnaataaaa 600
ggagactcaa atattagtaa ntcaaaacac atgtctgggt atgacngaga ttatccggca 660
ctggtgaatg gnggncattg ttaaaataat tcatttttgn cggaaaaatt tgtaattga 719

```

<210> 1239

<211> 339

<212> DNA

<213> Homo sapiens

<400> 1239

```

agtctgcctc agcctcccaa agttataaga tttttttcct ctgggttttta gtaaattgttt 60
tttttgagat tgcttagcac cagaatgatt tgcaaatttg aaaataggaa ctccactagg 120
aatgccggat agaagagtgc ttcacatttg tagagggaga caagaactaa atatcacgac 180
gtctttctga gccttttgggt ttgctaactg gcccacaaatt cttattccaa acggtataag 240
ataattatgt gtaaataaat accagctcta cttagtttta tttcatattt gtgtatckga 300
tatattaaaa tatctttttt ttttttttga aaaaaaaaaa 339

```

<210> 1240

<211> 229

782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<400> 1240

```
gcaggcgtga gccactgagc ccagcctact tttmagtttt waacataatt tttgttttat 60
ccacaacttt tcaagtattg aaagtagaat aaaaacatgg gttcttagtc ttttgcctac 120
tggtgaagcc tatgaatgcc ttcttaaaat catgttttta aatgccttaa atatatngga 180
ttacaaagga atcttattat tcgaaatagc gtnttaaaat gtttaaaaa 229
```

<210> 1241

<211> 1075

<212> DNA

<213> Homo sapiens

<400> 1241

```
gccccagctc gtgccgaatt cggcacgagc agtttttaac ataatttttg ttttatccac 60
aacttttcaa gtattgaaag tagaataaaa acatgggttc ttagtcttta gctatctggt 120
aaagcctatg aatgccttct taaaatcatg tttttaaatg cataaaatat ataggattac 180
aaaggaatct aattatatcg aaatacagtt attaaaatgt taaaagataa gtttggtata 240
tattaatatg catgcttctt tataaatgca ttaaataaga gttaatagct atcctaaatt 300
tgaaatagtg ataagcataa tgaaaataga tgcaaaaaac taatgtgata tgaaaatatc 360
tggggttttc ttttgatgat gaagtattgc taatattacc gtgggtttatg aactatgttc 420
agaattgaag aaaatcctaa ctttcagtta gaggttagtg acgggggttca ggacacccta 480
cacaaaatac agcactttga catattgaat attttaagct gaaggcattt gaggaaattg 540
cagaagcagg aaggtgactc tgaccttctg cctgctgttc tccccagaag cagccataaa 600
acctgggaag gattttctga ccttcccctg aagtagatca taagactgtc atgtaagagg 660
tgctctctcg gcacccagag aaaaggagca tccttacctc caaaagcaca gggacacaaa 720
gaggaatcta aacaaacagg cctctcagtt tccccagtt tattacattt agcttggtca 780
cactttgccc tatgacattt ctacatcact ggctgctctt catcaaacct actataaaaa 840
acattcaagt tcaactgttt ctttgggcct ttatttcctt atggagsccc tcgtgtcgtg 900
taaaacttat attaaataaa tgtgcatgct tttctcttgc taatctctct tttgttatag 960
agatctcagc cctaaacctg ggatggatag aaggaaacat atgttctccc ctacattagt 1020
aaaaataaaa atggaatttt ttaccataa aaaaaaaaaa aaaaaaaaaa aaaaa 1075
```

<210> 1242

<211> 336

<212> DNA

<213> Homo sapiens

<400> 1242

```
gatgggattg tacactttct ggttctctct caagtccaac cagtatgtgg taacctgtct 60
```


783

```

cttcccactt catttgtggc actgggtttgc agtggacaaa aggtccgtgc tcctcttcta 120
acctaatactg gactgggttg cccaaagggtt gccctgccac actgccaagt gcctaattag 180
ctgtttttctc tccaaccctt ccaaacactt atcatgagta atttctcttg tctttakagt 240
tgccaaatst aatctctgta aatacaaatg tggtagagact tcttctcagg agtttcagca 300
aatgaaacaa taaactcttt ttaccctga aaaaaa 336

```

<210> 1243

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (752)

<223> n equals a,t,g, or c

<400> 1243

```

gggtcgaccc acgcgctccgg aatgtttttgg tgaataaatc tggtcttcag caaccctacc 60
tgcttctcca aactgcctaa agagatccag tactgatgac gctgttcttc catctttact 120
ccctggaaac taaccacgtt gtcttctttc cttcaccacc acccaggagc tcagagatct 180
aagctgcttt ccattctttc tcccagcccc aggacactga ctctgtacag gatggggccg 240
tcctcttgcc tccttctcat cctaattccc cttctccagc tgatcaaccy ggggagtact 300
cagtgttccct tagactccgt tatggataag aagatcaagg atgttctcaa cagtctagag 360
tacagtccct ctcttataag caagaagctc tcgtgtgcta gtgtcaaaag ccaaggcaga 420
ccgtctctct gccctgctgg gatggctgtc actggctgtg cttgtggcta tggctgtggt 480
tcgtgggatg ttcagctgga aaccacctgc cactgccagt gcagtgtggt ggactggacc 540
actgcccgtc gctgccacct gacctgacag ggaggaggct gagaactcag ttttgtgacc 600
atgacagtaa tgaaaccagg gtcccaacca agaaatctaa ctcaaactgc ccacttcatt 660
tgttccattc ctgattcttg ggtaataaag acaaactttg tacctcaaaa aaaaaaaaaa 720
aaaactcgag gggggggccc gaaacaaacn gn 752

```

<210> 1244

<211> 764

<212> DNA

<213> Homo sapiens

<400> 1244

```

aaaattagac acactttaaa ccttcaaaca ggtattataa ataacatgtg actccttaat 60
ggacttatct tcagggtcct actctaagaa gaatctaata ggatgctggt tgtgtattaa 120
atgtgaaatt gcatagataa aggtagatgg taaagcaatt agtatcagaa tagagacaga 180
aagttacaac acagtttgta ctactctgag atggatccat tcagctcatg ccctcaatgt 240
ttatattgtg ttatctgttg ggtctgggac atttagttta gtttttttga agaattacaa 300
atcagaagaa aaagcaagca ttataaacia aactaataac tgttttactg ctttaagaaa 360
taacaattac aatgtgtatt atttaaaaaa gggagaaata gtttgttcta tgaaataaac 420
ctagttttaga aataggggaag ctgagacatt ttaagatctc aagtttttat ttaactaata 480
ctcaaaatat ggacttttca tgtatgcata ggaagacac ttcacaaatt atgaatgatc 540

```

784

```

atgtgttgaa agccacatta ttttatgcta tacattctat gtatgagggtg ctacattttt 600
aggacaaaga attctgtaat ctttttcaag aaagagtctt tttctccttg acaaaatcca 660
gcttttgtat gaggactata gggatgaattc tctgattagt aatttttagat atgtcctttc 720
ctaaaaatga ataaaattta tgaatatgac ttaaaaaaaa aaaa 764

```

<210> 1245

<211> 368

<212> DNA

<213> Homo sapiens

<400> 1245

```

ttttggtgat tccgtagtca actatcgtgt tgccttagct ctcttttcaag tcacaaacac 60
agctggcctt aagtatttat ttaagcatct ttatatcctt gtttacttta aactccttga 120
attagccatg caataatttg ggtatgttgt attaagagct ctaccacatt atgggttcagt 180
cattgtataa ttaaacatga ggcatacaaga atcaaaagtt actgttttac ttgcctgctc 240
tctccattgt gtcattttac atttttagtag tactgtgttt tgtttattaa aaaaagtaaa 300
tcaacatata ctatgagggtg gaaaatggta cagaggccaa atcattctag tccggagggtg 360
gcattttcc 368

```

<210> 1246

<211> 511

<212> DNA

<213> Homo sapiens

<400> 1246

```

ggcacgagga gaaaactacc tatgacagtg ccgaggagga aaataaagag aatttatatg 60
ctgggaaaaa tacaaaaatc aaaaggattt acaaaactgt ggcagacagt gatgaaagtt 120
acatggaaaa gtctttgtat caggaaaaatc ttgaagcgca agtgaaacct tgcttagagc 180
tgagtcttca gtctggaaac tctacagact ttaccactga cagaaagagt tccaaaaagc 240
acatacatga taaagaagga actgcaggaa aagcaaaagt aaaatcaaaa agaagacttg 300
agaaagagga gagaaaaatg gaaaaaatta gacagctaaa aaagaaggaa acaaaaaacc 360
aggaagatga tgtagaacag ccattttaatg acagtggctg tcttcttggtg gataaagacc 420
tttttgaaac tgggttgagg gatgaaaata actctccatt ggaagatgaa gagtcattag 480
aatcaataag agcagctgta aaaaacaaag t 511

```

<210> 1247

<211> 431

<212> DNA

<213> Homo sapiens

<400> 1247

```

cggaggaaca ggttctgaat gccgcgctca gggagaaatt ggctctcctt gccgcacatg 60
ctcgagcccc gcacccaaag gtgatggggt ctgggcgtgg ggcttctctc atgtaccccc 120
ttacccgat ccttctctcc aaagtgtaac cttgcttttg gcccaacctc ccaacaggag 180
ccacctgggc ctgggccaga catgaccatc ttgtgtgacc cagaaacgct attttatgaa 240
tctccacacc tgacctgga cgggtctgccc cctctccgac ttcaactccg gccccgccct 300
tcagaggaca ccttctcat gcaccggaca ctgaggcgat gggaagcgta gaccccaaag 360
atccctggag ggctagtctg tatttttgtg ttaaactatt tgtagaata aagtaatttt 420
gctaataaaa a 431

```

<210> 1248

785

<211> 2058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1962)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1964)

<223> n equals a,t,g, or c

<400> 1248

```
cccacgcgtc cgcccacgcg tccgcccacg cgtccggatt catctaaacc cattgtaaga 60
gagtcattgga tgactgaact tcctccagaa atgaaagact ttggtcttgg gccaaggact 120
ttaagagaa gagctgatga cacatctgga gatcgatcaa tctggacaga tactccagct 180
gatagggaaa ggaaagctaa ggaaacacaa gaagcaagga agtcatccag taagaaagat 240
gaagaacata tattatcagg aagagataag agactggctg agcagggtatc ttcatacaat 300
gaatcaaaaa gatcagaatc tcttatggac atacatcata aaaagttaaa gagtaaggct 360
gctgaagaca aaaataagcc tcaagagaga ataccatttg accgtgataa agatctcaag 420
gttaatcggg ttgatgaagc tcagaaaaaa gccctaataa aaaaatctag agaactaaac 480
accagatttt cacacggcaa aggcaatatg tttttataag gggatttccc tgtgcaatga 540
agaaaagttg aagaatactc tttgtccatc tttatttctt tgtttttggc ttcttaagat 600
tagagattac tttaatctta aaaaacatac aaatttacct tgttctgtat gtccttttaa 660
ggtcatgttg aaacataaaa cgaatgtttt ttatgtagaa cagaatattc tatgtgcctt 720
tagcttctgt ggaagtatgg ggaattatgg gcttttcttc aaataattat ttaagaggc 780
ttccattccc cctgattttt gtggtgtctc acaagtaccc tctaaggctc ggtcaggact 840
gaccaccaa tctctaccac agcctggacc tccttgtgaa atatacctaa cctgccctag 900
agtcagtgtg tcaagtcctt cctgtaaatc catgactttg aaatttggtg ttttttcctt 960
ttaaactgca gccagtgaat acaaatttac ttgaaaatag agggatatgg gttttgcctg 1020
ttttgtaatc agtttgcttg ttttagcact cagggtcttt tatttgttat ttaatttttt 1080
aattgttttt aagtcagaaa gatctctggg ttatctcatg tgctaaggaa aaactatttt 1140
gctytttcca actttaatag ttagtatttc taggggaggc aatcaagata agatatgcca 1200
ttaactgtta gcattgtgaa atctgtaaga ctcaatctct gatctcaacc aaagctttct 1260
gagtcctgga actttgcttt gggacaactt tactttaccc atttatatgc tgtacttaac 1320
agttttagc taatttatgg ggtcatatct tttttttagc taatttacgg gggcatatc 1380
agtcattgaat agcctttttt aaaaatttaa taatccctga atacaaaaat ggaaatggaa 1440
aatttataat cataaccccc ctaattggga gtattataag tttgtaatgc ttaagcact 1500
gcctcttaag atgataaatt tataagatga gaaattctat ttaaactatt aaactattgt 1560
taaataaatg ccaattctat aagttatatt ttcttgcaga ttaatcccaa ttgttccact 1620
agtattctag ttttgaagag actggctgag cagggtatctt catacaatga atcaaaaaga 1680
tcagaatctc ttatggacat acatcataaa aagttaaaga gtaaggctgc tgaagacaaa 1740
aataagcctc aagagagaa accatttgac cgtgataaag atctcaagggt taatcgggtt 1800
gatgaagctc agaaaaaagc cctaataaaa aaatctagrg aactaaacac cagattttca 1860
cacgggcaaa ggcaatatgt ttttattaag gggrrttccc tgtgcattga aggaaagttg 1920
aagrattact ctttgtccat ctttatttct ttgtttttgg gntntttagg tttgggggta 1980
ctttatctta aaaaacatac aatttacctt gttctgtatg gtccttttagg gtcagtggga 2040
acataaacgg atgttttt 2058
```

786

<210> 1249
<211> 943
<212> DNA
<213> Homo sapiens

<400> 1249
ctgcattctc tcggaagtca caccttatac cacatcaaag gacacatacg ggtgagaaac 60
cctatggatg cagtgaatgt aggaaggcct tctctcagaa gtcacagctg gttaatcatc 120
agagaattca tacaggagag aagccttatac gatgcattga mtgtgggaaa gctttctcac 180
agaagtcaca gtcacatcaat catcagagaa ctcatacagt aaaaaaatcc taggaatata 240
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cccactgggg atgaggggaaa accccatgaa tgcgggaaat gaggcaatat ttttaagaaa 600
tgacagttca ttgtacataa gaaaatgctc tttaggaatga agttctatga aagtactaaa 660
tatgggacag tgcaacaagt aaccagacta ttttgtatgt tggagaattc atattatgga 720
gaacctaaca atttaaagac actgggaaca cttgcccctc agtatagtac tgtcaaggga 780
agccatacac tttttgtaga catgggtacc aaaaatcccc aattctaagt ggttgacaga 840
tgttcacttt gaagtgtgaa gttttaaaaa tacgtgaata aattggttat tgaaacatct 900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aag 943

<210> 1250
<211> 2231
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (581)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1918)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2204)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2214)

787

<223> n equals a,t,g, or c

<400> 1250

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gcgggccgcca agcgatccct gctccgcgcg acactgcgtg cccgcgcaca gangaggcgg 60
tgacgactttt acggcggcac ggtaagtgcg tgacgctcgt cagtggcttc agttcacacg 120
tggcgccagg aggcaggttg ctgtgtttgt gcttccttct acagccaata tgaaaaggcc 180
tagtaagtgg ggtcgagtcg cgggcgtgga gggacccacg tctggaagtt gctgcagcca 240
ccacgacgct cttctacggc tacggctttg tctctgctgg tatgggggtg ggagcctacg 300
cgtaggcctt ggccctattt cctggtagaa ccgagagttg gaagtcctta cggcgatcat 360
gttaaccgcg cgggctcatt ctgcggaacg aagccgggca gagggtgggg aagactaggc 420
tagatthttcg taaggaagca gcgtctgagc caggthttgag gcccaatatt ttctttccgt 480
ggscacgtgc agactggccc aggtgagagc tgagaatcgc ctcccagact cagtgttcct 540
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ctgtttgtgta tgatcccat ctaatatgtg gagggtaagt gcaggggaatt ttgactccat 660
tctggatcta ctgaatttaa ttctctggga tttgaaaagta gcacgtatgt ttgcattagg 720
catttcgcat tagacttaac gttaggthttg gtagccaatc acacaagaaa aggatataac 780
tccatagtg cgttaaccag aactaatcat ttgggttaac agatthttgta tgtgtttctt 840
tgtagagtta aagaaagcaa gtaaaccgat gacctgccat aagcgggata aaatccaaaa 900
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gaaggaacta gaaaagaaaa gaaaacttga aactaatcct gatattaagc catcaaagt 1140
ggaacctatg gaaaaggagt ttgggctttg caaaactgag aacaaagcca agtcgggcaa 1200
acagaattca aagaagctgt actgccaaga acttaaaaag gtgattgaag cctccgatgt 1260
tgtcctagag gtgttggatg ccagagatcc tcttggttgc agatgtcctc aggtagaaga 1320
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gttcagagcc tcaacaaaac caaaggataa agggaagata accaagcgtg tgaaggcaaa 1500
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gcattttggg gaccactaga ataaaccttc ttttgacaca tcttattttt aatatcagt 2100
cctcattagc ttactattgc catcccccta catcttggga ctctctctcc atattttaat 2160
gagagtattg tggtagacat ggaaaagcgg cttcaatctg ggangtactg gganaagatc 2220
aattgcacag a 2231
```

<210> 1251

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

788

<220>
 <221> misc feature
 <222> (379)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<400> 1251
 ctgagagaaa ggaatgaaag gatggaagaa ttacaagatc aggcactgct gtstgtctgt 60
 tccacggatg taaccacagc acacgcgtgg ctacacgtac tagtgtgata aatgcttggt 120
 acatgaaggc gtgaacaggg atgagaagag acttcctgga gaaacaaaag gactaacaat 180
 caggaagggg aggtgatcgg ggcaggagta aagtggacac ctacagcaaag ccattcgtcg 240
 tgatctctga ttgtgcagtg tcatgtcctg tncaccagag cccctcgtg tttgatgttg 300
 gccaatgccg ccagcatgat ctagcaggcc aawtcctwat ytaccattct yttgacacca 360
 gctggtcctt ggggttcgtnc caccgatgt tccnctttt tccccatttg gg 412

<210> 1252
 <211> 416
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (326)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (367)
 <223> n equals a,t,g, or c

<400> 1252
 gcttgagggc tttggcatcc tgagagcctg cctgggggga ctgtcaagtt gccaaaggga 60
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 aaggacattt ctttggtcag gaattgacaa gaatgagccc agagtcaccc accccaaggg 180
 tgtgtggcaa ccatcccttg ctcaacaccg aaagctgtag aatcatagtg gggaaagaag 240
 caacttcttc agaagcagtt gtctaattgag cacagcttgg aaagaccttg gttcttcttg 300
 atcatcactg gggggatatt tcgcanaaca agaaattgca tgccccgtcc atcatgttcc 360
 accccnngcc caggccaccc cgattgatct gcccgggctc tctccttcca ggaagt 416

<210> 1253
 <211> 2735
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

789

<222> (74)

<223> n equals a,t,g, or c

<400> 1253

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cagtttttaaa atgggattttt gagaatggac ttaactttcc tggaatccaa tgctcctgga 60
gatttatgac tttncagacc atcagccagc tatctagaga agatttttgt ttttcttttg 120
caacagtttc ttcagtcaac tcattcactt tcaaatagga gcagcacttt gaaatccttt 180
ttcttcactg tggattaaaa acatccaaga agccatctct gtcaagcaga attgtcatct 240
gtggtaataa gtgaccatgt cctaaatacc tttttcttag tgaggagtgt gtcattgtct 300
ttgggcatct gcaacccctg ttcaggcatg tgacctgcta aagaaatata gcctacacta 360
ccttgactac tggggaaaaat gatacttcgt aaaatgtaat aaggcaacct gttccttggc 420
ctttatctta tgttttccaa ctattactgt atctgttatt ggtctactat tacaggatga 480
ttcttcttcc tccattgatc tcaactaaat atgaattagg gtcatgcatg aaatctgaac 540
tgccgtgtcc tgagttatgg ttaagaggta tgtgctgcca ccccatgcat gtcttcccca 600
tccccatagg atttttaaagt gttcaggtag caaacacagt tctgtgtgag gttttatgcc 660
tacttcctca acaccaattc agaggcaaca cctgtgcacg tgteccacca aagggtgcttt 720
aatacctacc ttcactatct gagaaaggac actcacagtt gcctgtgggt tatgaaagaa 780
ttggccctac gtccctgcatg taagatgtta caggggacat tggggcaggc attattatat 840
agagaagtct tatttgccaa gctctgacta acttctggat atgaaaataa ggaacttgcc 900
cagcataggc ctataggcag cagccttact agtaaactct gccacagaat cacttgaagc 960
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ctttgtggaa tgtaattaac cctgctttac gaagtcacca tattataata ggaaaaacac 1080
tgcctaggag gcaagagatc tgaattccag ttctgatgct gccactgtgt aaggaagtag 1140
ttttataacc catgggcaaa tcactctgagc tttctcatct gtaaagttag ggagaggaat 1200
taattagttg atctgtaaaa taatcagctt caaacggtta tggctaaatc tgtagaatgt 1260
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caggccaagc gttacctaca ccaacaccca agccattaat ttgagggtgcc atgagaatag 1380
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ggaagtgttg gaaaaaagat tagggcaggg tacccttagt ttatataggg tacaaaagaa 1560
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caagttttgc ttgactaaag aatgctgac ttttttggga gtctgatctc cttctaatat 1740
cagaaagtgc tttttatatt ccagattgct tgaattaaac tgtttggatt aaagaacata 1800
tatggagtgt cctctctggg tttaaataat ctttctttat tcagtagcta ttaataattt 1860
atctcatatt cagcgaatat ttattgagaa tattgttgag aatctcttac atgccaggca 1920
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gcatcctttt gcaagatttt ttttaactac caggcttaaa ataagagggt ccagagcac 2160
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ctttccaaaa aatgcaccta aaattctaat ctctgtatct gtgagtctcc agtttttcaa 2520
cccaagcttg acgagttgtg ggacctctc caaatgtttc aacaagctgc tcaggctgcc 2580
ttgcacgtca cagccccagg gcagcatcag tgcggtgagc tgttctagca cgttcatcct 2640
gtcgatcagt tcatgaagag cttcatttcc atctttttcc aggtaatgtt ctgataaatc 2700
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790

<210> 1254
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (609)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (651)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (682)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (683)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (692)
 <223> n equals a,t,g, or c

<400> 1254
 ggggtgctttc cacaacatgc atcgagacca tcttggagca tttacttttg aagcattttg 60
 tttaagaccc cggataagaa aatgagggca aaagaggtga agtgacttgt ccaagatcaa 120
 cagtgaatta ttagttggaa cgccagcctg atactcctag ctatatctca ctggaaaagc 180
 attggagaaa atgaaaccat tttaatatc taagcttaaa taatagttat tataggcgtg 240
 agccaccatg cccgaccagt ttctgctttt attaaaattg ttcacagttt tatacattca 300
 tgttcattaa aaatgctatt tagaaaagag tttgataaaa taaatattat wcaaaattcg 360
 aagaaaaaag aawagagttt ctgtttcagt cacaaattag ggttattgtg atgtgtattt 420
 atgatgaccg ttgaacaaat gtgaagaata ctgtgaattc tatgacttta tcaaaatcag 480
 ccacatccag gagcttgcag ttgttgacca aatgaatgat gacatagagt agttcagatc 540
 tatcatgtgc tcttctatct aatcagtc aaatttccttg gccctcaagc caacattcat 600
 ttttttatgna taccttcttc atgattttga aattttgata ggggtaactg nttaatggag 660
 ttcccaaagt gtagcacttt tnnaaccgca ant 693

<210> 1255
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 1255
 gctgtgtcca tgatgctttt aataaaaaa acccccactg cagtctcacc ctccaagtgg 60

791

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gtgtgggagg cggggtggt cagcagaagc cccagggcct ggactccatc catctgctca 120
gacaacagca gggagagcgg ggggtccaggt ggggcagctc cctcccttcc acccctctcc 180
gcccctcctg agggcccatc aggagcagga cccctgtgcc tccgtggtct tgccctgttt 240
gcaggcagca tgtggccctg cagtacacac gcctggagac accacgagtc ctggcgccct 300
gtgtgcaraa aggcacctac ggcycctggaa gcccagttgc ggaaggaggt tgggggaggg 360
acgccgggag ggaggtcatg cagcctctgt ggccagcacc accctgacgg tgccctggag 420
gtggctgtca cctgaccgtg ggcagaccca cagagcaagg cc 462
```

<210> 1256

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 1256

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gggaaagctg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc cagcggtccg 60
cggagcgctg gggcaagact tttgcccgct acctttcatt ccggcgtgac aacaatgagc 120
tgttgctctt catactgaag cagttagtgg cagagcaggt gacatatcag cgcaaccgct 180
ttggggccca gcaggacact attgaggtcc ctgagaagga cttggtggat aaggctcgtc 240
agatcaacat ccacaacctc tctgcatttt atgacagtga gctcttcagg atgaacaagt 300
tcagccacga cctgaaaagg aaaatgatcc tgcagcagtt ctgaggccct atgccatcca 360
taaggattcc ttgggattct ggtttggggt ggtcagtgcc ctctgtgctt tatggacaca 420
aaaccagagc acttgatgaa ctcggggtac tagggtcagg gcttatagca ggatgtcttg 480
ctgcacctgg catgactgtt tgtttctcca agcctgcttt gtgcttctca cctttgggtg 540
ggatgccttg ccagtgtgtc ttacttggtt gctgaacatc ttgccacctc cgagtgtctt 600
gtctccactc agtaccttgg atcagagctg ctgagttcag gatgcctgcg tgtggtttag 660
gtgttagcct tcttacatgg atgtcaggag agctgctgcc ctcttggcgt gagtgcgta 720
ttcaggctgc ttttgcctgc tttggccaga gagctgggtg aagatgtttg taatcgtttt 780
cagtctcctg caggtttctg tgcccctgtg gtggaagagg gcacgacagt gccagcgagc 840
cgttctgggc tctcagtcg caggggtggg atgtgagtc tgcggattat ccactcgcca 900
cagttatcag ctgccattgc tccctgtctg tttccccact ctcttatttg tgcattcggt 960
ttggtttctg tagttttaat ttttaataaa gttgaataaa atataaaaaa aaaaaaaaaa 1020
aaaaaaaaa aaaaaaa 1037
```

<210> 1257

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<400> 1257

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aaatgcaaag aatgtggcaa ggtcttcagt gaccgttcag cttttgcaag gcatcgagga 120
attcactactg gagagaagcc ttacaaatgc aaagaatgtg gcaaggctct cagtcaatgt 180
tcacgtctta cagtgcattc gagaattcat agtggagaga aaccttacia atgcaatgaa 240
tgcggaagg tctacagtca gtattcacat cttgtagggc atcgaagagt tcactactgga 300
gagaaacat acaaatgtca tgaatgtggc aaagccttta atcagggtct cacactcaat 360
agacatcaga gaattcatat cggagagaaa ccttaciaaa gcaatcagtg tgggaattcc 420
```

792

```

tttagtcagc gtgtccatct tagacttcat cagactgttc atactggaga cagaccttac 480
aaatgtaatg agtgtgggca aaacctttta aacggagctc aaacctcact gcacatcagr 540
taattcatgc aggaaagaaa ccatataaat gtgatgaatg tggcaaggta ttcaggcata 600
gttcacatct tgtaagtcac cagagaatcc aactggaga gaaaagatac aaatgtattg 660
aatgtggcaa agccttttggg cggttgtttt ccctcagcaa acaccaaaga attcattctg 720
gcaaaaaacc ttataaatgt aatgagtgtg ggaaatcttt tatttgtcgc tcaggcctca 780
ctaaacatcg aataagacat actggagaga gccttacaac taaactcaat gtgacaaggc 840
cttagacgtt gtccatagtt ctggaatcac cgaataattc ctacttactg atataccttg 900
tatatttacc ccttctcttg aaatccctgt ggaattgtaa tctccagtat tggagggtggg 960
gcccatggg aggtgattga atcatggaag tggatttctc aaactgagaa agatgtagcg 1020
tcatccctt ggtgctgtcc tggcaatagt gacttctctt gaggtctggc tgtttagaag 1080
gcatagcact tccctgtcgc ttgccctcat tctcaccatg tgaaataccg acaccgcgtt 1140
tgccttccac catgatttta accttctga ggcttcccta gaggggtgatc agatgccagc 1200
accatgtttt catttaagcc ttcagaaata tgagccaatt aaactctttt ctttatacat 1260
taaaaaaaaa a 1271

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<210> 1258

<211> 849

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (806)

<223> n equals a,t,g, or c

<400> 1258

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gggtccgcgcc ctgtcgggct gagcgagttg gccacagag ccggcgcgct cccgcctgca 60
gggggagagc agacgggagc ggggacggcc aggcgggagc ggtgctgttt ctgtttcact 120
ttccttact ctgaggccgg cgcgctggcg ggcgaggagc ggcgggcgtg gcgctgkaca 180
tgggaaagcg gaaccaccaa aaggagtgat gatcaacgat ctcatgataa atctggatgc 240
tagttctcat gcctcaggac atcctactgg gaacgacaca ccagctcctg ggatcagact 300
ttcatctact taggacctt ctttgeccag actactaaag ccagtcttca ctagccacga 360
atggctaccc aaaggaaaca cttggtgaaa gatttttaatc cttacattac ctgctatatac 420
tgtaaagggt atctgatcaa gccacaaca gtgacggaat gcctccatac attctgtaag 480
acttgtattg ttcagcactt tgaagatagc aatgattgcc caagggtgtg caaccaagtt 540
catgagacaa atccattaga aatggtgagg ttggacaata cattagagga aattatattt 600
aagctgggtc ctggactacg rgaacaagaa cttgagcgtg aatctgaatt ttggaagraa 660
aataagcctc aagraaatgg acaagatgat acttcaaaag ctgacaaacc gaaagtagat 720
gaagaagggt atgaaaatga agatgataaa gattatccac aggaagtgac ccacaaattg 780
gctatctgtc taggttgttt tacggnatta atggggccat tcgggggaca tgttggttaa 840
gggttttaa 849

```

<210> 1259

<211> 622

<212> DNA

<213> Homo sapiens

<400> 1259

```

ggaatttggc ccatccaaag actggccaag tgccaaaaaa aggctgatt aggcctgaa 60
attcagtga attctgctg aagaaacctc ttattgaatt tgaaaacat aaaccatttc 120

```

793

```

agggtgagctt atggggtttgt tttggggtttt tttttttttt ttttaagtctc tggcccaatg 180
tacgtgggat tagattctgc aagcaggcag cagtaagtat aagctaattt ctgtctataa 240
aaagaatgat taaaaaaaaat cattttgttg atgtgtggaa tagagattat cacacacatc 300
attaagtggg aatgtgatga atgatcacia aacgaacagt cttataccca gcacacagat 360
cagaacaaag taactatcaa gcaccttcaa tgccccctc akgcctcttc ggattawtaw 420
tgcawccttc ctatagagag gtaagcacct cttgattatc agcaccatgg gagatgtttg 480
tctgattttg aacttctgta aatgaaatca tatagtatat actctttgga atctgttgtc 540
ttttgtagag ggaacttttt cattataaat cttatagtag tgttgttcct tcttcccatc 600
aacagtgttc ttttacttaa aa 622

```

<210> 1260

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<400> 1260

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tctgggtccc caggggtcca ctcccgccgc agccccggctc cgtcggcgctc agtggagccc 60
cagggcctggn tccgagatga gcgagacgct gctctggctc gcggtcgccc gagcgctccc 120
aaaaccaggg aacaggcccc aggagagaag cccctagaag tttcctggag cagggagtct 180
cctgtatcct gttagctctg caaaggaatc tggactttat tctgagggcc ttggagaacc 240
cctgcaaagt tttttaaaag gtggactaag agattggcat ttcacaacat gactctccga 300
attgaaacac taagaagatt ggcgaaatth aacattttaca gattagtaat ttaaccagg 360
tgactcgcca tgaggacat ggctaccctt cactttttgga gggagtttta agtgatacag 420
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<210> 1261

<211> 647

<212> DNA

<213> Homo sapiens

<220>

794

<221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (636)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (644)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (647)
 <223> n equals a,t,g, or c

<400> 1261
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 ttaaaaaaac agagttatcc caatacatta tcctgtgatt taccttacct acaaaagtgg 180
 ctctgttttg tttgatgatg attggtttta tttttgaaat atttattaag ggaaaactaa 240
 gttactgaat gaagggaacct ctttcttaca aaacaaaaaa aagggcagaa atcaccccaa 300
 ggaacgattt ctacaggttga gatgatcacc gtgaatccgg cttcctctga gcattcgatg 360
 gccttagcac ctcatcaagc cagcacatcc tgccctgctgt tgcagcctgg ctgggtttat 420
 tcttcagtta ccctaattccc atgatgcctg gaaccttgat taccgtttta catcagctct 480
 tgtacttttc agtatatttt cataatgagt tatattgtca tttagacttt gaacagctct 540
 gggaaataga agactagggt tgtttcttaa atttagctca tgttataata aaaagttgaa 600
 atgaaaaaaa aaaaaaaggg gggccgcctt aaaggnccaa gttncgn 647

<210> 1262
 <211> 836
 <212> DNA
 <213> Homo sapiens

<400> 1262
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 tcaactcagta tcaggagaac agcaccacaa aattgtgggt aatcattcat gagaagcctc 180
 ccacgaccca atcacctccc accaggcctt acctccaaca tctgggatta caattcaaca 240
 tgagattttg tgggaaacaca gatccaaacc atatcacgca caaattgcaa ttacttcaca 300
 ctacagataa cccattaatc tgtgaaggat taatctgttc atgaaggcag ggccctcatg 360
 atggaatcac atcttaaagc ccctacgtct gagtactgtt acattgggga tttagtttta 420
 atatgatttt cagagcagaa aaacattcaa accatagcaa tatgtattga atatctagat 480
 catttccaaa taagatatta atatgatact gaaacattta ttgctgaaca taaatttaga 540
 acttactttg cctacctatt acagaagaac aaaagatatatt tgggcctatt aaacctttcc 600
 tctgccattt cctgtcctgt gtcataggac taggaatcgt gtttctagaa agtatgaaat 660
 cgtgtgcttg cmaacttgga agaaaacagt tcatgactgc ataccttcta gttctctagt 720
 gttcactgga aattaaagac actaaaagtt aacaattctt attaatatt catattaatg 780

795

taattggaat ttctagaaat attaggggaa gcaactttat acgcaaagca taacag 836

<210> 1263

<211> 312

<212> DNA

<213> Homo sapiens

<400> 1263

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 tgggcatgta ctgagctgtg aggtgagatg catctcttac tgtgggctcc aatcaaagtt 180
 ttaaaaacay cattttaagt tatgttcagt ggttactgaa tcttttacat aatttagttc 240
 tctcttgaat cttcttgtcg tcatagraaa tgtcctatat cmatttttac agctwtaacc 300
 atctgatctt ca 312

<210> 1264

<211> 190

<212> DNA

<213> Homo sapiens

<400> 1264

ggagctgact ctgcctgtcc agggcctgca aagtggctga gctcccttcg ggcccatggt 60
 gtgcgcactg gcattggaca agcccgggca aaactctttg agaagcagat tgttcagcat 120
 ggcgccagc tatgccctgc ccagggccca ggtgtcactc acattgtggt ggatgaagca 180
 tggactatga 190

<210> 1265

<211> 571

<212> DNA

<213> Homo sapiens

<400> 1265

accagtctcg cgacactttc cttggccatg ggagacacac gagaagagac tctcgcaaga 60
 aagtaaatga gtcaggctgg aaacagcgaa gtatatctcg cgatacacgt gtttaaaatg 120
 gcggcttcaa ggcgtttcac ggggtgtccc gacaggcgtg gaggtggggc gcaggcgagg 180
 atgaagcttg agttggccag gagtcggaaa acgattgcag gcgggaccgc gtcctcgagg 240
 gctgaggaaa cttagcgtgg cagaccctaa actgggataa ctttagggat atggccttct 300
 tttcccagtt gcctcaaaact tagagcagcg tcgtctttag ccgaagattc attttcccag 360
 cattttcctt ctccaggcgg agtagttgga gacagagggc aagccagaaa ctgaccttcc 420
 catctcctca ttcccttcca tcaagaactt ttcacgttc tttcccacc ctggtttgta 480
 aatggtatth ggcttcataa aaacgtttgt ccacaggtgc cctgctccat cagttcgctc 540
 cagcaatata ggaagttacc aaaaaaaaaa a 571

<210> 1266

<211> 1474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1345)

796

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1440)

<223> n equals a,t,g, or c

<400> 1266

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agaaacaagt tcttctgtaa cgggaggatc atgatggccc ggcagacggg cgtcttctac 180
ctgacgctcg tcctcatcct ggctactagc ggactcttct tcgccttcga ctgtccgtac 240
ctggcggtga aaatcacccc tgccatccct gcagtcgctg gcacctgtgt cttctttgtg 300
atggggaccc tgctccgcac cagcttcagc gacccggag tcctcccacg agccacrcct 360
gatgaagccg ccgatctgga aaggcaaata gatatcgcaa acggcaccag ttcagggggg 420
taccgcccgc ctcccagaac caaagaagtc atcatcaatg gccagaccgt gaaacttaaa 480
tactgtttca cctgcaagat tttccggccc cctcgcgctt cccattgcag cctttgtgat 540
aactgcgtag aacggtttga tcaccactgt ccctgggtag gcaactgtgt ggggaaaaga 600
aactacagat ttttttatat gtttatttta tctctgtctt ttctgacagt ctttatattt 660
gcattcggtta tcaccacagt cattcttcgt tcacagcaaa caggattcct aaatgccctt 720
aaggacagtc ctgcaagcgt cctggaggct gtggtgtgct tcttctctgt ctggtccatc 780
gttggcctct caggattcca cacctacttg atcagctcca accagacaac aaatgaggac 840
attaaaggat cctggtcaaa taaaagaggt aaagaaaatt acaatcccta cagctacgga 900
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ctggccagnc aggattcctg atgaggactt ttgcggctg tgaactaant cctgtgacan 1440
atggccaggc cggggaaacc aaagggtcttc atgg 1474

```

<210> 1267

<211> 1405

<212> DNA

<213> Homo sapiens

<400> 1267

```

gtgtatttta caattttttt aaaggaaaat ttaaaatatg aaatgtttgt tttgtcttaa 60

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797

```

caggggtatcc cttctccctc ccttgtcagc cttccttctt tctttgaaag gagaagtcac 120
acgttaagta gatctacaac tcatttgata tgaagcggtta ccaaaatctt aaattataga 180
aatgtataga cacctcatat tcaaataaga aactgactta aatgggtactt gtaattagca 240
cttgggtgaaa gctggaagga agataaataa cactaaacta tgctatttga ttttcttct 300
tgaaagagta aggtttacct gttacatttt caagttaatt catgtaaaaa atgatagtga 360
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tatcagctga tattagtagc tttgcaaccc tgatagagta aataaatttt atgggygggt 480
gccaaatact gctgtgaatc tatttgtata gtatccatga atgaatttat ggaaatagat 540
atthgtgcag ctcaatttat gcagagatta aatgacatca taatactgga tgaaaacttg 600
catagaattc tgattaaata gtgggtctgt ttcacatgtg cagtttgaag tatttaaata 660
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aactgactat agattgtttt ctatgccatg tatgtgccac ttctgagagt agtaaatagac 1320
tctttgttac attttaaaag caattgtatt agtaagaact ttgtaaataa atacctaaaa 1380
cccaagtgtg aaaaaaaaaa aaaaaa 1405

```

<210> 1268

<211> 1453

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1452)

<223> n equals a,t,g, or c

<400> 1268

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aaaaaagaaa gaaagaaaag gtacatgtat atatttgttc tgcattatgt tttttacttg 60
atataaatgt atttttactg tgatagtcca agtgccctgg ggggcagggtg tgctctatgt 120
ggttcttctt ccattggaga gctggcgtag agatctgcag tgttcacaag gatgttggtt 180
tggagatgtc tgctgctagg acctgggggtg tgtgactcag tccatatgag agggacatct 240
gggtggagga gtaaatctct gtgctctgaa atgccacttg gtagctctgg acaatgaagg 300
acaattgact caagggtgcc tggcttctgc tgcgtctggg aaaaaattca gtttatagca 360
ttctgcacc tcccaaagta gataacctgg aggtcattca gttacaact gtccctgagg 420
actcagtttt gggggagggg ttatctggga gaagcttttag cctgttctga gccattagga 480
gacattagtg aattggagca ctggagaatc ctacaaatgg cctatgtctc agaagagctg 540
ggacctcctt ccagctgctg cagatgctga caggccctgg gaggctgctg tgctctggag 600
aagctggagc agctcatttc ttggcctagc ctggctgcct cagaaagagc agtcaggact 660
tgagggaagc atcaaattct ataccataa actgcagttg gaagtcagct ttttgaaatg 720
tccagccttt gcccaattgt ttcagatcat ctcatctctc aggccttggc aggtatcctg 780
ccctccatct tattccagtg tgttcacctc atcaaggcag cagagtggat gaaggagtaa 840
gtctgccctt tgccatactg aacagctgtg gaccccgatt ggtgagggct ctgcataatg 900
ctgtatgaag gagatacagg tgtgtgtgca catgccggtg tgaagaagac acaggcatgt 960

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798

```

gcttctcagt tttgctaaca gtgggagctc aacggggcag agggaggaag gtccatgatg 1020
ctcagccaca tactgtagag agaggcaatt taatgttaaa tgacgcacca tcctccctcc 1080
cacccttctc ccagtcaact ttttttcttt ttctagaact actaattatc tctcaaggct 1140
gaaaaattaa ttgccttagg tggagaactt aattcctagt atccaccaaa cttaactccg 1200
tatctccata tgggtgtctcc atatctactg tgtgagctac ttaactgacg ccctcttcc 1260
ccaactgaag gatcgcccaa cgttttttga ttatagaatt attatttcct gctttctttc 1320
tttgggactt ttgaattttc ttggtttcgt ttttaagaag taaccaaca tttcctacaa 1380
cactaaataa aatgggtactt acctttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440
aaaaaaaaaa ana 1453

```

<210> 1269

<211> 1353

<212> DNA

<213> Homo sapiens

<400> 1269

```

ggaccacgc gtccgattat ggtaaacatt ttaaactcta ggctgttgggt taaattttaat 60
ggtttaagca ctgttgggtt ctctttaatt aatatttgca gaaggagaac atatgtgttt 120
cactgatatg tatgggtccag aaaaattact taattctcaa aaatatgttg cattctcata 180
ttgtgttagg gaaaattcca taagtagtct attttttttt tttcttttgc tgactgttaa 240
catccaaca cctgaatgaa aactgactca tttctgtatt ggtgtttaaa aatattgatt 300
tgcagatgtt cacagaacac ttgcattttt tgattcacat tgctaaatca aatgtaaagg 360
caaataatga tatttaataa atgagaagta tttttttatt actgaaattt attctcaaag 420
caaatgtatt ttgtagatgk ttcatttggg agattttgct ttgccttaaa acatacmaaa 480
taaacctgtc ttgtgggtctg cccacctcaa aacctctgtt aacttgacat gtagaaggag 540
ttcagaattc ttgataatg tgtgggtttt acttttgttt ggattaaaca aaaataaaat 600
tagagttcat agcactttgt aaactaatgt gaagtttctt gttgaatcat aaaagctacc 660
tgtatgtact ttataattta atgttctgtt agtaaaaatt gtcagcattt tatctttttc 720
tcttctcatt acatttttagt ctccaatctt tcccactctc agcagtcaca gttttgcaga 780
gcaaaacatt tttagaaact gaatatgtgt gagttctata taaaatgaat gtgttagtaa 840
catccatctg ctgatcaagg aggcatgtga tctgggtacta gaagggtgaaa ttgattgtag 900
ctatcaaagc attttatcaa tgtaagtcaa gaaaaaagaa gaaaactgtg aacctctgat 960
atttttaaca taaaactgt tccaatgag tgttctcttg ctgattttgt gttaatgtta 1020
ttgtctatga tttttaagct aatgctaata taaaatctaa aatttcaaca tgatgacaac 1080
aattcctgta gcctgttttt accattagga tgtttttgaa aacagatgtc atcttagaaa 1140
ttatattttt aagtgc aaatcatcct gacttgaaag tcaacacatt ttattttttc 1200
ttccgtagta tcacagaata tgctgcattt agatacagg ttaatttgcc agattttctc 1260
aaaattctgt atttttatat tgctacaact ggtttactta acatgcaatt gaattgttat 1320
ttaaataaat tacatttgat ggaaaaaaaa aaa 1353

```

<210> 1270

<211> 1569

<212> DNA

<213> Homo sapiens

<400> 1270

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acctattcaa aatttttatta aaaaccagca aattaatttt aatctctagc cataaaaaaca 60
taagtaatag taagctccta agcttggaca aaggctggat tctcttcact ataactgagt 120
ggtaatttaa agacaacaat ttaatgtcac taattttcaa aattaaatag ttttaagctca 180
atttaatttt gctagatatt taacaaaaca tacggctcaa cctcataacc tatatgtgtg 240
tatgtctaca tctgtgtata tatcatagga tttgagaatc ttaacacatg tataaataag 300

```


799

```

tatatatataaa ctccaatttt aaatcttataa attgctgaat ttaccctcat attctttataa 360
aaactttaaag cattatgaat gtwgagaaat tcaccagagc tcaactgccta tttgatggct 420
gtaacaagtc ttcaagtata tactttttata ataagttgaa aatttcatat aattttattt 480
attaagaatt ccaatctaag tataaaggta caaggtagtg agaaggaaat actacagttc 540
ggagaactgc ttattttccaa gtatatattaa cttataaaagt taataaatag ttaaatgaaa 600
caaagtttat aggtgacctt tagtaaatgg ggaaattaac aggactttct tcttcactct 660
caaactcttc agaagcagca acagggctag ttaattcaac tccaattgt tctgaaagtt 720
tttttacctt ctcttctaag agaataattct tcttcacttc ttccttgtaa ttatacttaa 780
gatcttcaat ttcttcaaaa aatgaaggat caaaattttc cagttctttt ttcagcttct 840
ttatttcttc ctccaatgc tgcttttcta gatctgacat tttgagctgt gtctctagat 900
cttttatttt ttcttttagt tgatcagcat caggatgggt gctttcagct ccactttgggt 960
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catgtttaag aatcttaatc tgttgttcaa ggtcttcatt gtatttgta actttttgtt 1140
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caatatcagt ttccaattct tttwacttgg tttcatacat tcttgtaacc acaatggatt 1260
tccagctctt actgtcagca ccttcaagct gtggacctct gctttctgca aactgcaatc 1320
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cattttcagc aataattttt tctgtgcctt tggctcttga ttcatagtgc atgctcaact 1500
gatgcccaag atgagcttta agtttttcta attcagcctt caatttttca ttttctgtct 1560
caatattag

```

<210> 1271

<211> 573

<212> DNA

<213> Homo sapiens

<400> 1271

```

cagttgaata catcatccac aaaccaccaa ttgccttctg aacatcagac cataactaagt 60
tctagggact ccagaaattc ttttaagatca aatttttctt caagagaatc agaactcttc 120
cgaagcaata cgcagcctgg attttcttac agttcaagta gagatgaagc cccaatcata 180
agcaattcag aaagggttgt ttcatctcaa agaccatttc aagaatcttc tgacaatgaa 240
ggtaggcgga caacgaggag attgctgtca cgcatagctt ctagcatgtc atctactttt 300
ttttcacgaa gatctagtca ggattccttg aatacaagat cattgaattc tgaaaattct 360
tacgtttctc caagaatctt gacagcttca cagtcccgta gtaatgtacc atcagcttct 420
gaagttcccg ataatagggc atctgaagct tctcagggat ttagatttct taggcgaaga 480
tggggtttgt catctcttag ccacaatcat agctctgagt cagattcaga aaattttaac 540
caagaatctg aaggtagaaa tacaggacca tgg

```

573

<210> 1272

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 1272

800

```

gcaacaaatg attctgaggc ttgatggctg tctanactta ctaacagaga tgagcaaata 60
caagcacaag agcagccctt tattgcctct tcttatcttt cataatgttt gcttcagtc 120
tgcaataaaa cccaagatcc tggctaataa aaaaagtcac tactgtgctt gctgcctgtc 180
tggaagtga gaatcaaaat gctcagagga ttggagcagc tkccctttgg gctctgattt 240
acaattatca gaaggcaaaa acagctttga aaagcccatc agtaaaaaga agagtggatg 300
aagcatactc cttagcaaaag aaaactttcc caaactcaga agcaaaccct ctaaattgcct 360
attatttgaa atgtcttgaa aacctcgtgc agctccttaa ttcttccctg agtgcccatg 420
ggatgcctac accttgaagc tgacagtcac caacagggga gctaaagttg aagcccagct 480
gtgtgtagca gctgttacct gaagacgtgc tacctctcta caaagtgttg atccccctct 540
ttcccatgag agagagaact ggtgatactc caacaccgtc cagttgtggc agctctccag 600
aagtaatagc agctgacaac tttctgtgcc ttttcttttc tgttgaaaag gcatagaaag 660
ttctgggaac ataaacattt ttaccctttt ctatgccatt tattttgtaa aaatcctatt 720
taacagttat ttaataaaac aatattttta gaaamwaaaa aaaaaaaaat tactgcggtc 780
cg 782

```

<210> 1273

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1273

```

gctgaaccac ctccaaaacg catcractcc cggatattca aagctgccct ttcaaatacca 60
ctttcagacc gcgctgacct gggccagcca ctggsngtca tgggtgctgg tgggggcat 120
tagctgtgta gaccacaggg tgctggggcc tgggcccgcg gcgcctcttc mccaacgcgg 180
ggagcctgcc cagttcttct ggagcctgaa atgcgtgcc ctcttggttg cccgctctcc 240
acagtgggga gggctcacga ggactaggtg acacaagcga gcccctcctg gcat 294

```

<210> 1274

<211> 687

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 1274

```

gctcgacagg taaaatccct acgtgaccc tctgccaaaa tgtcgaaatc agaccctgac 60
aaactggcca ccgtccgaat aacagacagc ccagaggaga tagtgcagaa attccgcaag 120
gctgtracag acttcacctc ggaggtcacc tatgacccgg ctggccgcgc tggcgtgtcc 180
aacatagtgg cgggtgcacg cgcggtgacg gggctctccg tggaggaagt ggtgcgccgc 240
agngcgggca tngaacactg ctgcgtacaa gctggccgtg gcagatgctg tgattgagaa 300
gtttgcccc attaagcgtg aaattgaaaa actgaagctg gacaaggacc atttagagaa 360
ggttttataa attggatcag caaaagccaa agaattagca tacactgtgt gccaggaggt 420
gaagaaattg gtgggttttc tataggaagt ttcaacgaat cacagcaagg cttttgtgcc 480

```

801

```

ttgcactcca tgcattctga taacggcagc tttcctaaaa agaaaaagtt atagtttttg 540
gacattttaat ttggtatagc tgattattgg ctttatttga tgaatattgc tttgtagctt 600
tgaaatacga cagtgttcca aatcccatca acaaaatgct gtgaacaaca acaacaaaaa 660
ataaatcaag aaggcatarm aaaaaaa 687

```

<210> 1275

<211> 818

<212> DNA

<213> Homo sapiens

<400> 1275

```

gaattcggca cgagaaaaag ccataatata agactctaaa gatctggaat gaaacctaata 60
aagagactgg taggtcaaat gagagcaaag catttgaatt tgactggatt gttttctcac 120
tggaataagt gattctatga gttcatcatt aacacatttt ttgactggaa aactgctata 180
ggatcccagg gaggactaaa tttgaacaga ggaagtggac agtgttgcag tctctgttct 240
agctcttggg tctagaatag gagagttaag agcaccaatt tgggatgaag aaagcagaaa 300
gcaattatcg atatcaatca agagagcaga acagcctctc tccctccatc ctccctctgc 360
cctcttctcc ctctctctct ctctgctttc ctttactct gtgtatgtta gctttggccc 420
cattccataa gccgagataa aaatgctagg catgataaat ttgtgactgt tactaacatt 480
taggattttt tttttgagat ggagtttcac tcatgttgca gtgagctgag attgtaccat 540
tgcactccag cctgggcaac agagcgagag tctgtctcaa acaaacaaac aaaaaaaca 600
atgccacgtc aacatcagga cgttaacctt tagaccctat atggtctaaa aaggggagggc 660
atgaataatc cacccttgt ttagcatatc atcaagaaat aaccataaaa atgggcaacc 720
agcagccctg ccctgtctat ggagtagcca ttcttttatt ctttagttt ctttaataaat 780
ttgctttcac tgtaaaaaaa aaaaaaaaaa aaactcga 818

```

<210> 1276

<211> 850

<212> DNA

<213> Homo sapiens

<400> 1276

```

ccccttcaact tgggagtctg acttcattac ctcgtctgaa acaagggtgcc tccaagcttt 60
gggttgattt ccagaatctt gttgggttaa acataagtag aagtttgatc ataaagggtg 120
ttattaagcc ggataggtaa gcacgggtgac aatggcaata gaaatctaata ggaaaacgat 180
tgaatgacaa ctacacccaaa gtttcatgga tgaaactcac cccagaaact tagtgttcaa 240
atcagagtga tacacaattc aaaatgtgat tttaaacttc tggaaatatg tgtgtttgtg 300
aagatccaaa tccaattcag caacctccat caggcagaaa ctttctgcaa tcctcacatg 360
aggaactggk tcacagtgtg cacagcatgg agccattagt gacgttatcc aaaggatgag 420
acaagacaaa agttactgtc taataaaaagg aaaattagga acaggaatgc tctttaaact 480
caggaagatc ttttggggtg tcaaactgga cagcacagaa tcattagaaa aattagcttg 540
gcgtgagaag agacattgag gtcttctctg taaaatttac ttagatactt gtgaatagga 600
ctgaaattta tattttgggc actctttacc tcagattcag agttcttagg attattttaa 660
attcatttgc tggatgtttt caagtataaa caataagaaa actgcaactt caacttaaaa 720
ggcactgctg tatttgcacc ctatattttg acctgtcgtt aggtactgtt gaatattttt 780
atctgtaagc atttatgaag tgcaaaaataa acatgtttatt atataaaaaa aaaaaaaaaa 840
ggcggccgct 850

```

<210> 1277

<211> 500

<212> DNA

802

<213> Homo sapiens

<400> 1277

```

gagcaagacc ttgtctcaaa aaagcaaaaa agcaaaaaaa aaaaaaaaaa aaaaaaaaaaag 60
gaagtctttc ttcagatact tacgtgaaaa aaacctgcaa tatcttttaa gtgaaaaaaa 120
cagtgccaaag cagcacacat agtataagcc ccaaccaacc tttttttttt tttttttttt 180
gagacagagt ctggctgtgc ctcccacttt ctaagctttg saragagtga gttgactgag 240
cagccaggta gatgtgggtt cagatctctg cktctgtccy gctgtgcaa gtgctggggc 300
agacgcrrgc agagagtggg cagyggcatg gtgcctgctg ctagccattt ctatgcaaaa 360
ccagatttct rgtcccatcc tggaggccaa ttctaggtac stgggtgggc ctgggaacct 420
gtgaamcaag taaactgact tagacacccc ccacccacc aggctgtcc tagcagcccc 480
acacaaaacg ctcatgtcct                                     500

```

<210> 1278

<211> 561

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (538)

<223> n equals a,t,g, or c

<400> 1278

```

gaagtactct aaatgagcat aaggaagaaa acacaactac agttttcata ggagctaaac 60
tgcagaacac agacaggatt ctagaaggac aaatcttatt tcatttagct tcttcttaaa 120
gccaagatac ctgcaaattc aaaccttagg ttctgcctc tgcggcaccc aggagagacc 180
tgactaggaa acttcagaga ggagaatgta aaaggaaatg tagatatatta taattgaagt 240
atctttcccc ttgggtattt ctctttctct tttttttttt aatgaaaatc agtcaactga 300
atatttttgtt tccccgagga agactcctca gctgtcgatt atgctgagca cacgggagaa 360
gctctaacag aagatgatgc ccgctctggc taatgateac ctgttctgta tcagtgagag 420
acaaggctct gaagttggcc cccttcagct gtgaataggt attaggtacg gaatatagct 480
aaaagcattt gtgtgagcct gcaaancaaa tgggtgctgg anccaatttt gtacagggnat 540
atccaaataa atttaatttt c                                     561

```

<210> 1279

<211> 1667

<212> DNA

<213> Homo sapiens

<400> 1279

803

```

gggaactgcc aaaagtgtgc atttggctac agtggactcg actgtaagga caaatattcag 60
ctgatcctca ctattgtggg caccatcgct ggcattgtca ttctcagcat gataattgca 120
ttgattgtca cagcaagatc aaataacaaa acgaagcata ttgaagaaga gaacttgatt 180
gacgaagact ttcaaaatct aaaactgcgg tcgacaggct tcaccaatct tggagcagaa 240
gggagcgtct ttccctaaggc caggataacg gcctccagag acagccagat gcaaaatccc 300
tattcaagmc acagcagcat gccccgcctt gactattaga atcataagaa tgtggaaccc 360
gccatggccc ccaaccaatg tacaagctat tatttagagt gtttagaaag actgatggag 420
aagtgcagac cagtaaagat ctggmctcgg ggtttttctt ccacttgaca tctgccagcc 480
tctctgaatg gaagtgtgga atgtttgcaa cgaatccagc tcacttgcta aataagaatc 540
tatgacatta aatgtagtag atgctattag cgcttgtagc agaggtggtt ttcttcaatc 600
agtacaaagt actgagacaa tggttagggg tgttttctta attcttttcc tggtagggca 660
acaagaacca ttccaatct agaggaaagc tccccagcat tgcttgctcc tgggcaaaaa 720
ttgctcttga gttaagtgc ctaattcccc tgggagacat acgcatcaac tgtggagggtc 780
cgaggggatg agaagggata cccaccacct ttcaagggtc acaagctcac tctctgacaa 840
gtcagaatag ggacactgct tctatccctc caatggagag attctggcaa cctttgaaca 900
gcccagagct tgcaacctag cctcacccaa gaagactgga aagagacata tctctcagct 960
ttttcaggag gcgtgcctgg gaatccagga actttttgat gctaattaga aggcctggac 1020
taaaaatgtc cactatgggg tgcaactctac agtttttgaa atgctaggag gcagaagggg 1080
cagagagtaa aaaacatgac ctggtagaag gaagagaggc aaaggaaact ggggtggggag 1140
gatcaattag agaggaggca cctgggatcc accttcttcc ttaggtcccc tcctccatca 1200
gcaaaggagc acttctctaa tcatgccctc ccgaagactg gctgggagaa ggtttaaaaa 1260
caaaaaatcc aggagtaaga gccttaggtc agtttgaaat tggagacaaa ctgtctggca 1320
aagggtgcga gagggagctt gtgctcagga gtccagccgt ccagcctcgg ggtgtagggt 1380
tctgaggtgt gccattgggg cctcagcctt ctctggtgac agaggctcag ctgtggccac 1440
caacacacaa ccacacacac acaaccacac acacaaatgg gggcaaccac atccagtaca 1500
agcttttaca aatgttatta gtgtcctttt ttattttctaa tgccttgtec tcttaaaagt 1560
tattttatatt gttattatta tttgttcttg actgttaatt gtgaatggta atgcaataaa 1620
gtgcctttgt tagatggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1667

```

<210> 1280

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (439)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<400> 1280

```

ttcacagcta ggagtccttg ggaatacacg aacctgtgca gtagacagtt gggggccagc 60

```

804

```
ttgttgaggaga ctgttcttat tttcttcttc ctttcagaat ttcagctgat cctcactatt 120
gtgggcacca tcgctggcat tgtcattctc agcatgataa ttgcattgat tgtsacagca 180
agatcaaata acaaaacgaa gcatattgaa gaagagaact tgattgacga agactttcaa 240
aatctaaaac tgcggtcgac aggcttcacc aatcttggag cagaaggag cgtctttcct 300
aaggtcagga taacggcctc cagagacagc cagatgcaaa atccctattc aagccacact 360
caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaana aaaaaaaaaa aaaaaaaaaa aangggc 457
```

<210> 1281

<211> 723

<212> DNA

<213> Homo sapiens

<400> 1281

```
ttttttttcc awgtacwtga aaaatccatt ctcttggtgt cactacmagt ctgcttagtt 60
ttaagtgaaa ttccttttat gtctacttgg tttttacttg tgtcaacatt tagtatgcta 120
cctcttctat wgaaggatga actcctaatt ccctctgttg tgacaacaat ggcatTTTTT 180
atagcttgtg taacttcctt ttcaatattt gaaaagactt ctgaagaaga actgcagttg 240
aaatcctttt ccatttctgt gaggaatat cttccatgtt ttacatttct ttccagaatt 300
atacaatatt tgtttcttat ctcagtcac actatggtgc ttctgacgtt gatgactgtc 360
acactggatc ctctcagaa actaccggac ttgttttctg tattggtgtg ttttgtatct 420
tgcttgaact tcctgttctt cttggtatac tttaacatta ttattatgtg ggattccaaa 480
agtggaagaa atcagaagaa aatcagctag ctgtattcct aaacaaattg tttcctaaac 540
aaatgtgaaa atgtgaacag tgctgaaagg ttttgtgaac tttttgctat gtataaatga 600
aattaccatt ttgagaacca tggaaccaca ggaaaggaaa tggtgaaaag tcattgttgt 660
ctacacaaaa taaatgtata tggagaccaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaa 723
```

<210> 1282

<211> 331

<212> DNA

<213> Homo sapiens

<400> 1282

```
cggacgcgtg ggcgaccac gcgtccggct caggcacgtg gccaccttg aaccagggat 60
tttgatcggg ggactctcat tggcccgcc ccgttgggtt ccttgctccc tggcccccac 120
gggagtgagg atggcgccat ggtggagagc accaccagga ccacgtggag ttagggagag 180
actgtcccc taagaaaaac ataggacccc tgcaagccca accacctctc ccattagaat 240
ttttcagtca ggcacaatgt caaaagtcca gcttaggktg garacaaatt tgcargacag 300
gtttcccara atcatccaca ttaccaccta c 331
```

<210> 1283

<211> 347

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

805

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<400> 1283

```
gttctagcaa gtgtggtttt agctgtatta gccagattgg gcggccggga gtggtggggg 60
tgccgggtgg aaggctctgg gcggggtctc aggaccctcc ttttcttggc ggggatcggg 120
cttgtggtgc cgctccccgt aatgtacgga ggaagaggga aagggtctctg gccccctcgg 180
cgtcatgtct tcggtgctgg cggttccca tccgctggtt ctatcctcaa acgccgggac 240
accgggaatc tcggaggaag ggacaaccga ggattccagc tggcttcctn catcggggtg 300
cttcacaatt tcttcatttg attttcangt cttgcggacg ctgttat 347
```

<210> 1284

<211> 918

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (866)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (916)

806

<223> n equals a,t,g, or c

<400> 1284

```

gacacnaacc ctcactaaag ggaacaaaag ctggagctcc accgcggtgc gnccgctcta 60
gaactagtgg atcccccggy ctgcaggaat tcggcacgag cctgtcacca tccccagccg 120
ttagccatgg cttcgggttct ggctcccggg cagccccggg cgctggactc ctccaagcac 180
angctggagg tgcacacccat ctccgacacc tccagcccgg aggccgcaga gaaagataaa 240
agccagcagg ggaagaatga ggacgtgggc gccgaggacc cgtctaagaa gaagcgga 300
aggcggcagg gactcacttt accagccagg agctccagga gctggaggcc actttccaga 360
ggaaccgcta cccggacatg tccacacgcy aagaaatcgc tgtgtggacc aaccttacgg 420
aagccccgagt ccgggttttg ttcaagaatc gtcggggccaa atggagaaaag agggagcgca 480
accagcaggc cgagctatgc aagaatggct tcggggccgca gttcaatggg ctcagcgagc 540
cctacgacga catgtaccca ggctattcct acaacaactg ggccgccaag ggccttacat 600
ccgcctccct atccaccaag agcttccctt tcttcaactc tatgaacgtc aacccccctg 660
catcacagag catgttttcc ccacccaact ctatctsgtc catgagcatg tsgtccagca 720
tggtgcccctc agcagtgcga ggcgtcccgg gctccagtct caacagcctg aataacttga 780
acaacctgag tagcccgycg ctgaattccg cgggtgccgac gnctgcctgt ccttacgcgc 840
cgccgacttc ctccgtatgt ttatanggac acgtgtantc gagcctggcc agcctgagac 900
tgaaagcaaa gcagcnct                                     918

```

<210> 1285

<211> 3211

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (514)

<223> n equals a,t,g, or c

<400> 1285

```

gggattacag gcatgatgcy ccgcacttgg cctagtgttt tcttaactgt gaaattccca 60
ttcatttctt gaatgaggct acatcttatg gacagagcaa agttattgtc ctacagattc 120
ttaaactat aattatggct attgcatgaa atttaaatag attttattat gtctgcaa 180
ctctgggctt ttatttttct ggaaaatata ggagctttta tcaaaacata atagttcttt 240
ttgtaattcc atgttaataa aaacaaatac tagcaattgc ttgaatttta atgaatattt 300
aaaagttcaa gagccacgga aatcacttcc agagataaga gttcccttcc taaatagaac 360
acatttttaa aaaataagtt atgtttgcta ctaaaacatt tacactgkta gactattatg 420
tgcagtgtgc caagactctt aagtaacttg gatatcaact gtgaagggcc tacctctaaa 480
aagtaacagg tcatacaaat acmaatgtaa ctgntaaaaa ttccactgga ttcttgcata 540
tttgcaagat tagattattc aaaagaaatt tcagtgtctaa aattaaccag caacataagt 600
tctatgggct ttgaaaattg ttctcatctt tttaaagttg atgcattttc aatcctgctt 660
acacaggctg ttcathttga taagtaaata aaatgtctaa ggtgaacttg gcattatgtg 720
gagatgttgg accgttatag agcaatacaa attcctatgc tgtcattctg ttttctgcaa 780
atgcaaacgt gcttatatgg tcaacagtgc aaaaataggg tagttggctg catatttagg 840
gtattaccta agcatttgtt ctctaacgtt gctctactag aatgattttt ttcttgcatc 900
ttttcacatt aatgatgttc tttatataac tttcatgcca ttatttagtt ttttaaatta 960
ataaagtga ttttaagaaat attgaaataa acatctaagt aattgccatt ttaaaccctt 1020
gtttcttact gtgggagagg gggaaatata gcactcattt cttgttttta atttgcagaa 1080
gtaagtgaat atctatgtaa aatcaaacca aaagagttgg actgagtggt tattgtcttg 1140
agattaagtg acaaatagta aagtgttact gagtaattaa gcccatgtat tttttttttg 1200

```


807

```

tgagttgaaa atctttgaaa tatgtgataa ccgaatgtca aaagttccta aactctaaca 1260
gtgcagggttg ttcactgtaa cgaggtaact catatttgct gggtacataa actacaagta 1320
ctgctctcac aatatgggac tttgaactgt gatgtagttc aacagttgcc ggcatcctct 1380
cagctgatac gctgcgaata ttttgggtta gacttgcagc cagatgcagt tttgcaaccc 1440
aagaaaaaag ttgaacctat gatcaaaaac tgctcccaag atgaacctgg aaaaaaatca 1500
gctaagctcc cttggcgatc tgcaggaaca ctagtaatga ctggaattac tccgtgatct 1560
ttgatgacta ttacacataa cagcactcta gcaccttttc ttactggcat ggacttcctc 1620
atggactgct acttcatgga tgatagcttc attgcttttg gtagggattt aaggtagtca 1680
aggggaaaaat acgcatttta ttacaggctc taacatcagg caactttcaa ctttaaaacc 1740
ctttgtgaaa aatgtgggta tagcactata gctctgattt taggatggtt aaatgttata 1800
ttcattgttg gcytacctta tcaaactgtg ccattaatcc tttcacagac ataggtaagg 1860
aagagaacaa ccagtggtt caggggacaa ttatctatct ccaaataata ggcttttatt 1920
tcttgcagct aactttttca gtgattctag cagatgccat ctagtacatc cttgatcttg 1980
tttstttcgt gagagatctc gccatggcag catcttggtta agtaagtgtta attgcacatg 2040
cacaaaagac ttaactagct ttacatttag cagtcagttg gttagattag gtttcatagt 2100
aaatgaatag gaatagaaaag aataggaagt gtttttattt tccagtagta attccgtgga 2160
ttccatttga cccagtttac tatcagttca gttcaggtag atttggttca acttttggtg 2220
gtttttggct ctaggatatt cttgacttta atatcctaga acttactgag tcttcccttc 2280
aataaataca cttctcacat acctctaate ctatgcttcc ttgaaacaat aatgctagct 2340
gagttgttta ctaaggatta ttataagggc ctgaagggtg gggagtggag attaattaaa 2400
acctttatgt tctccaatat aagggaagag caggttggtta ctacttctga ttaggcagaa 2460
aacaccagga ttcttaagt gatccttgaa atggttattg ttttctgcct tgtcacattt 2520
gccactgtgc cttttaaacc gatgtggaaa cctcaggttt gtggacagca caggtggaat 2580
gacatcttgt gcttccctgag gctccctct accaggcaca ttagcttagt gcttcagatg 2640
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gctggagcgc ttgactctt caggtgacta ttctcacctc catttcctcc acatgcatta 2760
gggtgaaactg aggtctaagc ctcctgcaag gtctacattt taaggactca cacatcaggc 2820
tctcagaaat gtacacaggt attagtcttg tttgttctaa aggaaatgtg ggtatctctc 2880
aggccaggac ttagtgacta gttttcgcta gacagcaggt taatacctag atctcattta 2940
aaaaaaaaaa aaaaaaaaca ggattaaagg gaactgatca ggtttggtga gttttttagc 3000
ctaattccaa agcatggaag agtgctctag gtaggaaaga aagctttttc ttacgatttg 3060
tagctacctc ctgtgcctga cttggtgcct gtgtgaggat taagccctta gtctgctctt 3120
gcaattatcc aaatgacaaa ttaaatttgc ttttgtaata acaataaaaag ttgtcatctt 3180
cccttttgaa aaaaaaaaaa aaaaaaaaaa g 3211

```

<210> 1286

<211> 790

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<400> 1286

```

tgaggattag tgcagtnttc ccaagggaag atatgatcat agctagtggg cttaccttgg 60
cagtacttag actgtgtatc ctttgaagtg tccttatcta gggatggttt ccatgaaaac 120
catacagggt ttctaaatga cacagtctgg gtaactgcct agcttatgta atcatgtgag 180
gggttaataa tctctagggg ttagttacac tgatgacttt tcaagggttc cmgggcctga 240
ccaaaatttt ggcttctctt aatacaaagt ggcacctgga attttagctc tgtgtacatt 300

```

808

```

gatattgggc cccaaatggg tttctgtggg atgcaacccc agaaagggta ctctgatagt 360
actggagaag gtttactgct tgcctgtca tcgtagttca tgtttttttc cccaaggcca 420
aagattgggc tgggattggg gtggtagtgt atttgaatga tgctggagat aaccaaagcc 480
aacagtcttt gccagagctg ggctggtggt atttaactgt ctttgagtta aatgtaaagt 540
ttttaataaa taccagaat ccattaactg ctggaggggt aaagtgaagc tctgttgtaa 600
aataaagctg attccatta tgcgtggtcc tgtatacaca ggctgtgggt gaccattatg 660
gaacccaaaa atacctatatt gttattttgt gctatagaat aggaacttca ggggtggata 720
cctatgctgt caggaatgct tgttataaga attaattaaa acactttgct taattattaa 780
aaaaaaaaaa                                     790

```

<210> 1287

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 1287

```

cggcacgagc ggcacgagcg gcacgagggg atttctaggt tttcccttg atcccagcag 60
ggttgtactg cctaagagag cttggaaaagg gatagagaag tctgacccaa atttgcgagg 120
sgactgagtg tatgctgccc cctttctggg ccttggcttc ttctcaatc atctaggcac 180
agtckatga ctgcctgttt ttgaggatgt gggaaagggtc tgcaaataca gtgctttccc 240
attgacacac gctggtgagg atgcaagctc cctggcacca gcagtgaggg ctcagattgc 300
aagagtaaaa acttcatcac tgggaagaga agtctgcagg ggactggaag tgatctgaan 360
attctgaaat aactcttcct ctctctgcag a                                     391

```

<210> 1288

<211> 392

<212> DNA

<213> Homo sapiens

<400> 1288

```

gggaaaggag tgtttcccag acagcccagc ayctgcaggg gatggagggc acataagttt 60
gaatataaag tttaacaaat caggggcagg gccagaggaa ccaagtccaa gctcttgggt 120
tcaactataa agtaccatgg aagtttgaaa actgaaagag atcaaaaagc tgttagaaga 180
aaacgcaggc atcaatcttt atgaccttcg attaggcagt ggtttcttag atatgacacc 240
aaaagcaaag caacaaaaga aagaaaactt aaagtggatg tcatcagaat gaaaaactct 300
tgtgcttcaa aggataccat cacattttat aattcatagr tctgataaag grcttgtrtt 360
aaggaawtmc aaggacctcc acctccatta cc                                     392

```

<210> 1289

<211> 129

<212> DNA

<213> Homo sapiens

<400> 1289

```

agtgtagggg tagccatctr aggaccagtg ctacacccaa gaatactgat aagtgtttct 60
ggtgtggggag aaatraggrt tatttatata gggcaaaaca gaggtgttga acaggattac 120

```

809

agcattttt

129

<210> 1290

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 1290

```

gtccgggagc agtggttggg gttcncagag tnatgacgtg gagtggctgg gcctgggagc 60
atgtgcacat cgtctgtact ctggatccct ggcccagaag gactcagatc cttacttcta 120
ggaattttca tttaatgaac attatgagaa ttggaggagg ggagaattcc ctttacagaa 180
tcaacccaag ttttctgcag ggatagggag cccttgtagt aagttatccc catagaaatg 240
aaaaccacgt ctccaccatg gctgttctta ctctctcaga gaagctctga taaatgaatc 300
ttcctggata tcctgatcat tttcattttc cacgtgctcc attcctgctg ggaaccccag 360
ttggcggaca caggcagatg gccaggggac cttccacaaa gggccacagc ctgtggccng 420
ccantcantg tgcccttctt tgtg                                     444

```

<210> 1291

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

810

<400> 1291

```

gcacagtttc tctaatacatg gtcaacaaag atctgacagt gcatcggtccc taaacgaccc 60
atacttgccct cactgacacc atgtggccca cttoecatct ataatactatg tctgggtgtg 120
aagcccttcc catatgatcc cccgaatgga acttcacaag ttcgaattca ctgggtcaca 180
gtgtgatagc gtgaagatgg gaggacgtta agggaaggct atgggtgagt tgggaaatgt 240
gttaggcagg gtcagagatt accacatcct aaaaacaaca cttaaggcgg gagatgacaa 300
aacaatcaat gaataacatg actttttcca gtgaaagtgc cataatctaata cctttttccat 360
ttttgttctc tgagcttctt tcttagggaa gatccttctt gagaagcccc tgctgagtat 420
taggaaaatg catttcagga cctctcatca acacaccctc tttctttacc acaaccacat 480
atatgggggc ataactcaac atgtgtaaaa gacaatcttc tgctttttcac tgaacctcca 540
ggaattcagg acaataaayn tctacatgsa gaccaacagg tgagtttttc tgcccccttct 600
ttcataacac cgttcttccc tagtgaagtc cacacacatc cttacatggc agctgtgggt 660
atatcaactg gtc 673

```

<210> 1292

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<400> 1292

```

gccagaataa tattctctta tttgcatgta tctaccacat tttattttatt cattcagcga 60
cgggcagcag cctgtagata gttttgtttt catgtattga atgggtccttt cccccagtgg 120
agttagtaaa tgcataccgga agcagaattc tgttggtttcc cattcatcac tgtgtgccag 180
gtgtctgaga aggggggtctt ataggagccc acgcaraaac caagctcacc tcagtctggg 240
tgtggggcag tcaggggaagg cattctggaa aatgtagctg actcgaaata agcacctatt 300
graaatagtg tgcygagccc tggaacatta aaaatgtgtt cctatgtgga aatcanaaat 360
gtatgggtcc ca 372

```

<210> 1293

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 1293

```

aagcttcctt tgnnctagcc cggccgccac cgcgggtgaac agacagctcc caggttccca 60

```

811

```

attttattaa tgccacgcta ccacctcagg agcgcacac tgctcaggag attgacagct 120
acttacgccg ggagctgac tacaagcgga atgagagaat aggggaagcgg gtgaaggccc 180
ttttggagga gtccctgac aaaggcttct tctttgcctt tggagctgct tcacagtagc 240
cttgaaaatc aggagccttg aactacagta gctgtgaaaa ctgtttgcct aatggttact 300
ggaggggaca gaatgggttc aaagtctctc caaagctcca tccttaaaga atcatcacta 360
tttgacatgt ccaatagttc cctgaaattt ccattcccaa gcttgtcttc atttgacctg 420
actcagagct tgctctgtgt gaatagccct attcttaggg tgtgtgttga aaacaatcag 480
tagcagctgt ttaacatcat agttgctgga aatagcaata ttaattgaag cttacaaggg 540
gctgccccaa aaacttaaaa gcaaaatccc atagggggta tagaaaagct ctaaaatatt 600
cctagagagt cacatgcatg agaagagctg tgcacatgcc caggaaagac ctgagaaggt 660
cctaattctt cactcttggc tgatcttgag gctctgtgta agcagagtgt gaaagctaag 720
gcaaagtcac aaattgcctg ttgaagcatc aaatacatgc ccccaaactc acacagcccc 780
tctgcaaagg ttgggaaact tgcaaggaat ttaaggaaat ctctgttcag tcattagcca 840
gccactaaac taactgagca gatccttcag tgatcacaca caacaaagaa tacagacttt 900
acagacttag tcctagaaaa tcactacaca aacagcaaca acaatgcacc tgggactaag 960
ggagaggaga tgagttccag agttggtata ttatttaaat gtctagtttt caataaaaaac 1020
aattataaga cacagagcaa aactagaaag tatggcccat acccagggaa aaacaagcaa 1080
ccaatagaag ctgtccttga ggaagttaat atcttgagct tactagaaaa tgactttaac 1140
mctagtatta taaatatgtt cmaaaaaacta aaagaggcca ggtgcggagg ctcacgccta 1200
taat 1204

```

<210> 1294

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<400> 1294

```

aagtgtgcaa aatagcatta tttctaaaaa gacaatgtat atatcttatt taaaaactat 60
tgtagaaaaa tgctaattgat catttgagct ttcagtaagt tgtaatcttt ttgggtggtag 120
agggtctcgc cttgatgttg atggctgctg actgaatcag ggtgatgggt gctgaagggt 180
gaggtggctg tggtatttaa aataaggcaa caatgaagtt tgccacattg actcttcctt 240
tcaccaaaga ttctctgtga gcatgtgaca ctgtttgata gcatattccc caccacagat 300
cttctttcag aactgggggt gggacctggg gcacttgacg taatgggtct aaaccctttg 360
ttgtcatttc aacaatgtgg cacagcatct ttcaccagra gttggattcc atctcaagga 420
aaccactttc ttgtgcttca gccgtaagan ggcaattccc ccgtttcaag tttt 474

```

<210> 1295

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

812

<220>

<221> misc feature

<222> (407)

<223> n equals a,t,g, or c

<400> 1295

```
gcgaaggcag aatcattttt tctacctgtc tgaatcagca ctttgtaagt ttacataaaa 60
ttaaggattg tgattttctaa gataggcatg ctttgcaa atttctctat aaaagtggaa 120
gcctctttcc catagtgtc actttaaggc tttctgtagg cctgccgata agattcactg 180
ctgttcagggt acataagatg taatgtaatt ggatgcacat gctgggcttt gtaaataaaa 240
tgagattgac acccagcaat tatctcattt atctgattta cattgtaaaa tcaggatcta 300
cactattgat tagagcataa ttagttaatt atgaacaggg aaatacaaaag ttacatggag 360
cttgagctca gcargttgta ctgctnaaaa atttccaagg gcatgancag atggaaatca 420
gtttattaaa gaacaaagca gacatgtttc 450
```

<210> 1296

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (379)

<223> n equals a,t,g, or c

<400> 1296

```
aaagctggta cgccctgcagg taccgggtccg gaattcccgg gtcgaccac gcgtccgcta 60
agattagaac agctcatagg agagtcata ttttgaatca cccagataaa ggtggatctc 120
cttacgtagc agccaaaata aatgaagcaa aagacttgct agaaacaacc accaaacatt 180
gatgcttaag gaccacactg aaggaaaaaa aaagagggga cttcraaaaa aaaaaaagcc 240
ctgcaaaaata ttctaaaaaca tgggtcttctt aattttctat atggattgac cacagtctta 300
tcttccacca ttaagctgta taacaataaa atgttaatag tcttgctttt tattatcttt 360
taaagatctc mtacaaaana aaaaaaaggg cgg 393
```

<210> 1297

<211> 627

<212> DNA

<213> Homo sapiens

<400> 1297

```
tgtcctagag atcctgagaa ttacttttaa taaaatcatt tttttgctgt tattaaaact 60
aacctgaatt gcctaaaacc aagaactctg cttgataaaa taagcatagt tttaggaaca 120
gccatgcaga tataaatttt atcaacactt tatacataat ttgggactta tatttaaatg 180
taatatttga tgcttataaaa agggtaaagt gggaatgcaa ataaattatc aagcataata 240
actcatcacc taacttaaga ataacattat gagtgcttgt attttatcta tttgagctct 300
tctcctatct ttgccgaccc ccccgctctc tttttaatag atttgttcga atgtagaaag 360
acctaaaata catatgtatc cctaaagtga cttattttat agttttcttt ctttttgaac 420
ttcaaaaaaa ttgtatcata ctctatgtag tctaaggatt tggttttttt cactcaacat 480
gtctctagaa ttcacaagtt ttattgtttt atagctgtca ttttcattga tgtatatattc 540
attgttgggt tataacaacat attgttaagg aatacatata tatataataa attatacatt 600
ttttaaaaaa aaaaaaaaaa aaaaaaa 627
```

813

<210> 1298
<211> 381
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (352)
<223> n equals a,t,g, or c

<400> 1298
gtgggcctta ggggtacagca ggcgcgycag cgtttggtg catggcgccg ggggagggcg 60
ccctaaccga gaagctgctt aatacaaaga gctccagget cctggcggtt caccaggtct 120
aaacagcccg gctttatttg tgggggcgat tgaaaaaatt gaggggtcaag attgggggtgc 180
tgtgcaaata aatgcgttaa tactgttctt tttcttctt ctttgtagta gcctctagtt 240
cgttagtcaa aacgttgaaa aaaaatactg ctttgccctg ggaaataata accctgccaa 300
atactccact tgttggaac aaaagatttt atggaaactnc ttnaaaaaaa anctccacat 360
gcccattttt tttaccggt t 381

<210> 1299
<211> 509
<212> DNA
<213> Homo sapiens

<400> 1299
gacattgtaa ccgcagattc agcccaatct ggttcaactt tgtgtaataa aatggcgagt 60
tgtttttcag ttgtcgtgga cccccagggt gcaagttaca taccctgggc atgtccagat 120
gaacgaagcg tgcaaatcca cgtggaacct aagtgtctag actgaggaac agggactgag 180
ttaagaagtg gacaccacgt ggcgatgatcc ttgatccaat cagattgagc cctggcgtga 240
tccagtcaga tcaagcctcc tgaatccctt cattacaaga tccaatcata tcatgcctca 300
ctaccctctg tatataaaat ctgccccagc ctccaacttg gagagacaga tttgggccag 360
actcctgtgt ccttgcttgg ctgccttgca ataaattttt ctctctacaa aacccagtg 420
cttcagtgtt tggttttcca atgtgagcca gggaactgac ccaatttagt tcggcaacaa 480
cataagcaaa atgttttccc gagttctct 509

<210> 1300
<211> 452
<212> DNA
<213> Homo sapiens

814

<400> 1300

```

ggcagaggtg acaggtggtg ggggatgagc agggacgggc cagttttgta atctgggasa 60
gttttcaaga tgtattccct ctctgacatc tattaactag cacagagtct tcaggatatt 120
attaggtgct caataaaaagt ttattgtatg agaataagca atattttctt tatctctcat 180
ttggttgtat ctttccctac tttgttattt cattttttct tacattttat cytygtattc 240
tgacactatt tcttagtttt gcttctgttt tccccagaag agtactttgg ttaaaatgta 300
tcacttgcaa aatagaataa cacaccgcca tgtagtggtg cttcagggtta taattttcca 360
tatatgtaca gtatgccaaa aaggatgctg cttctagaga gaatgtttaa aactcacttc 420
tctagatttt tttaaagtta ctttagtggt tc 452

```

<210> 1301

<211> 539

<212> DNA

<213> Homo sapiens

<400> 1301

```

gatcacttca tgttatgaag ctagtatagc cttcacacca tacagrttaa tctcactgat 60
gaataraagt atgtaattgt taattatyaa trttagcaac ttgaatctac aggtgaytat 120
raagtatttt tttagtttga agatagtttt ttccaraaat ccaaggatgg cttaatcata 180
tggaataatc aagggcaaag ccaagccaag aaggcttgaa araagaacmc trgagatata 240
ttataatgct ctaataatta aaatggtgtg gtattagggt atgaatggat raacaracca 300
atggaacaaa attgcgaagc cagatagaaa tcaaccagtc tgtggatcta ttaatttatg 360
ggaatgtctt ttgtgagata tatcaattaa tgggaaaaag actgtttaaa acataattca 420
gtgacagttg actgtatgga agaaaacaaa attaaaccct tatttcattt ccagatggat 480
ttaagactca tgtaaaaaag taaaactttg aaactcagag aacaaaaaaa aaaaaaaaaa 539

```

<210> 1302

<211> 432

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<400> 1302

```

gcaccagtgg catcgggacc agccccagtt tgaggtcgct gcagagcctg ctggggcccca 60
gtttcaagtt cgcctatgct cagggcactg tcttgaccg agacagccac atcaccaacc 120
tcaaggggct caacctcacc acacctggtg agagtgacgg cttctgtgcc aacaagctgc 180
gtgtggccgt gccgtgctc agcagcgs gs gacaggtggc tgtscttgag ctacggaagc 240
ctggccgcct gccgacacg gcaactgccc cgctgcagaa tggggcagct gtgactgac 300
tggcctggga cccctttgac ccccatcgcc tcgctgtggc tgggtgaggac gccagkattc 360
gactttggsg ggtaccgcga raagggcytk gaagargtgn tcaccamgsc anaaactgtg 420
cttacaaggc ca 432

```


815

<210> 1303
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (294)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (344)
 <223> n equals a,t,g, or c

<400> 1303
 tagcagcccc nntcttttaa ggcctgacta cagaatccag cagcttttgt ctggagagct 60
 ggactgaaga gaggcatagc tggagaccca tagctggccc tggccagaam cagggagagt 120
 gaaaggctgg aatagccaag gccagagcaa ggctaataagg tagagcaaca gcttacaggt 180
 gtgggggtgg cagatactgg cacccttgaa atggattcct catgcccacg cttcactatt 240
 cttctctgtg gctaggggag ttatggataa accaaaatta cagttaaaaa ccanccatag 300
 gccaggcaca gtgactcacg cttttaatat cagcactttg ggangacaag gtgggcggat 360
 cacctgaaga tctggaattt gagaccagcc tggccaacat ggcgaaaacc catctctact 420
 a 421

<210> 1304
 <211> 815
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (217)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (223)
 <223> n equals a,t,g, or c

<400> 1304

816

```

cagacctgtg tctgatactg ratacagtgc catgggaccc tgcaccaatc taactgccta 60
caacctgccc rtccccctgc tgcagggatg ttgctgctac ctcgaggaggc tctctgagac 120
tggtgtcttg tcttagatgc tgcacatagt acctggtgct aggggtctagg ggctgcccac 180
agcccagcag gaacagctac tactcatect gcagagncct tgncccagac cagctttcca 240
tccaaagcct cacctggttt ccatgtccat ctcaacagtc tggccttcct gtgactgtag 300
cctggcagcc acaccctcag taatcccrca cagtgaagtcc agcttctctg ggagcttggc 360
cttcagttag ccaggtccat gagagggcag ggtaatgagg aggagtaaag gacctatctt 420
ctctgtccac ataaggaagt tgggaccaca aggtctttta tctccttggt actccccaac 480
cccaccataa cctcctactc agcacacagc tttatcctgg tagattataa ggtgagcttc 540
cagaacctgg caggaggctg gtgtatcccc ctgcacagas ggaagtgtat ctgaatgttg 600
tgtatgtggc tgatatggaa gacatacatg tatgcaatcc atcagcgttt aaagaagaag 660
attggctcca gttckgagga ggaggaggaa gattacagat ctattctgag tatttttttag 720
agagttaata tttatatattt tagtaatttt ctggtagaag gaaattgcac aataaaatga 780
tttggtttgg wtwgaaaaaa aaaaaaaaaa aaaaaa 815

```

<210> 1305

<211> 529

<212> DNA

<213> Homo sapiens

<400> 1305

```

tcagtgtctt tcagtttgtc aaagagygga tctcaaaaatc ttgcttaaag ggtaaytgag 60
atgtagcaga tttattttact tagtcatgga aagaaaaaaa ttcagtcaaa agctaaagat 120
ttccttttga ttgaagacag attggttctg tggccttgga actttcccag acttaatggg 180
gaaacatcat ttctagatta gcatactctt tggtttaaat ttaatatata catttaatgt 240
tacttaggga tacttttata ttttgcatat ataaagcctc atatataaag cttattttct 300
gatgctctta gatttctgag gaggtagatg attaagttgt attcattagt gtattgggtat 360
ttcttcacat ccagtgaat tggaratatg ttgtatgtta gaagagcatt ctttaaatgt 420
tggtgtcttg aacatgtgta ctttttctag attcagtaat cctttccccc crkcmtytg 480
agtatgaaac ctttagagtc acaataaaat gtaactaaag aaaaaaaaaa 529

```

<210> 1306

<211> 921

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<400> 1306

```

tagtaattat ggacttttaa aactatccat atataaccatt ctaacaaggg actctgatat 60
gtcagagta gaggtatctt tctatggntc ctcaaatctc ccagggaatt cactatcacc 120
agaatatagt ctcatgttcc aaagttagaa acaagcatat agtgagaatt catttggcta 180
tgtcttaaaa tattatttgt tttcctnttt ttgacagagt gaccttaaac ctgaaagtgg 240

```

817

```

tagcaaggta agaagtcagc ggtttgtctt gtgtttatat ttgtgtttac tcaagtagga 300
ctgctttttg aaacattttt tcttaacaag agaagttaca aagtatttac tttttcccca 360
agcaaaaatc ctatttttct ggaatttgga ctcagtatca tctcaggaat aaaagaatag 420
ctgagtcttg aacagtagga aacattttgc taatgccttt atacgccttt ttttttaact 480
gaaactccaa agctatgccc tgtgtggttt tgaaagaaat tagtttatgg gttcagttgt 540
ggaaaaatat cttactttta cattatgtag gacaagtgat aataattgtt tctgtgttg 600
aaaaaaataa ttgcaaagtt gttttgtttc ttatagggtta tcttctttat ctgtaataca 660
gaggcctttc tgtacttatt ttccaaattt aattcttttt tcctgtaggc tcaaacaggc 720
ccacaccctt cccgggttact tagtaataca gcgaaaacaa aagactaagt atttgagtgt 780
ttgaaaactt taatgtgtac tacattgcat accaggaaga aaatatggaa ccattttctg 840
cctcccacag cyargtggtt cattccctta ttccctaaca attttcctta atttctgtcc 900
ttcagatagc tggtagacag c

```

<210> 1307

<211> 802

<212> DNA

<213> Homo sapiens

<400> 1307

```

acgacgggta acatccacgt gggcggggggt gggcgggctgc ggccagccaa ggcccagggtc 60
cgggttgaacc accctgctct cttggcctcc acacaggaat ctatgggcct tcacagggcc 120
caggggctcc tgatgcccc ttccacatgt gagccaggac atgaggcttc cctgaagcaa 180
ggatttcagc cagatgccat agaccctcag aacttgacct ggaagtccag aactgaacg 240
caggcctcaa aactgctgcg gccttccaac tcttggtatc tgcacggcg aatggccctt 300
cttgccctga tccacaggga tggggaaggg aatgtcatta atgtttgtt aatactgatt 360
ctttcatgca atgatgtgta ttttccatt ctggaggctg tgggagatga caagacaatg 420
aatgggaagg tctgacacag aacaaatcag cggttctgaa agcttgggga atctcagact 480
cctttgagaa ttattggaaa atggacccmc tawaacttgg cgtgtgtgtg aactgcttga 540
tgcccatcca ggaaagccaa gttaagaagc tttgcttcaa gtagacacta gaaatccatt 600
cccttgga tttatacagt tcacgtctcc caccatccgt tcatctcacc caccctgcca 660
tctctccacc tatccatctg gctattgtc catctagctt tcccgtcca tctacccatc 720
ttccaatcca tcatctcacg tatctgcctt gcttatccaa ctgtctgcct tattcaccca 780
cccatccctt tatcattcta ac

```

<210> 1308

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (182)

<223> n equals a,t,g, or c

<400> 1308

```

acaaaaaaaa aaaaaaaaaa aaaaaaaatt caggccgtta ctggagagtc ttgggggaaat 60

```

818

```

ttttttttaa aatgtctgaa aattttttcca cttaatccat tgatgaattt caaagcaatt 120
gtatttttttc atacaagcct gccactgtga gcctgttctt attgtatctg agctntttgt 180
gntgcctgaa ttttgtctct taattttcttt tcagcttcat agtgwtcat tcttcaattg 240
tgttggaggg aaaaataatg gtagaaacta aaacacactt tgaccttttt tttccaattt 300
gtagatggca tttggtaggc ttttgggagt aatagcctat ttcaaaaatt aaaaggtgat 360
gcaaaattat tgtgggagt                                     379

```

<210> 1309

<211> 1444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 1309

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acccacgcgt ccgctaaaat atccccccaa accccagcaa tccaaaacac ttctggctct 60
aagcattttg agtaggggat actcactcaa cctgtatatt tgtgctaata catgactcat 120
tagaatgatt ctttgtaaac ttaatatattt aaaagtacag cacttctgta gtatggaagg 180
tttcagtaat aattatattc attcagtagt ctcttaccat tatctcccag atggaaaaag 240
aggactaatg tggaaacccc agagggtgtc cagttggacc agggagatat tagacactta 300
acagtatttt cagtctgtcc atctctttat tccaatgtga gaaatggaag tgtttttttt 360
tttacgttta ttggctcttc atatttctct acattatttt taatgtgcag tttcttcaat 420
tgggttagtat ttccatacta tttgcaactt tatggccttt aaatatagga catattatat 480
agcagaaatt ttgactttaa atcctcttga gtagtatatt ttgagaagaa aagctatact 540
gctcttcttg atggtttcca tcctttattt aggtcttttc tttttgaatt caagtgtttt 600
gtatgcttag aaagtagaca tgtataatat tgagatcggt tatttctgag ctggaaattg 660
gaaacttttg aaactcagga aattgctctg acaatgtttt aactgctctc aatttaagaa 720
aatgacgaaa tgtataaaaa agacaaaaat aacgtgtgct gttttttcca agtgcttttt 780
ctaagtgctt ttccattgtg caatgagggtg aagtttggtg atttttcggt gtagtagtta 840
aatattgctc aatttttatt tacatgtaaa gaaaacagat ttaaatgttt atgtggccaa 900
aagggtgcat ttaaaaggta aaataagttt atgtagaatg tatgttcnat ggtgcttatt 960
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aacaaggcta gaacacatct acatcctgaa gagccgttta taacttcata ttatatgatg 1080
acaaagttca ttattttcct taaagttgag caattgactt ttatggcca atgatgaact 1140
tattattaat aaatgattga gttaactgtg aggcttctca ttaaaataca atattgcagc 1200
tatcagtttg agaatatatt ataaaatttt cagacagtat atcagaaaaa tgtttttatt 1260
tgtactgtat agaaaatgta attttgctgt taactctgta ctttttaaat tgaaaatgtt 1320
ttataaattt gctttttaat tttcttatga agccatttgc aaattacata ctttaatttaa 1380
taaaatactt tagccacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaact 1440
cgag                                     1444

```

<210> 1310

<211> 353

<212> DNA

<213> Homo sapiens

<400> 1310

```

atgaaactga actatcttct ttttcttttt attccttctg ggataaagga gaagtaattg 60

```

819

```

taggaaaggt tatgaaacca ttttacggaa aagtagttag aaattaagcc aggacaatgt 120
cattaagtct tcagtgcacat ccctaggtac agcttttgtg ttttcatctc cttttgtgtt 180
ttcaagtgaa tagcagaaaa accctttaat ggtgtgcttc ctgtactggg ctacacagtg 240
gtgtwccaag gtatatatga aaccacagtg taaacaaggc ttgtcttccc aagacatcaa 300
ttttgataga aaawtgtgtg tgttcatgtg tgtgtgtgtg tctgggtgta atg 353

```

<210> 1311

<211> 927

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (729)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (903)

<223> n equals a,t,g, or c

<400> 1311

```

ttttgcaaataa ataacaataa tagtaataac acaattttgt catttaaaaa attacccatt 60
catttttcaa acttgactgt tagtggaggg gtatatgtgt gtctgtgttt ccacttatgt 120
aatggctgtc tcattattta aattaattta taattatttt tcagtgtaca gagtgattag 180
cggcttgtaa tgctgttaca atgtagcatt gtaatgtaag atgaaggaaa aattaggatt 240
taggtgggat ttttaaaaaa ttatcaattc agctactttt taaaagaagt cctattccaa 300
ttggaccttt aaaattttta ttttggtaat atttcmactt argrtgtwtt aaaactrgcm 360
attctgtggg aatcagtgta ctagtcaaca ttaaaatgct attttgggtt gtcttctttt 420
ggtaacatat tctgacacta agcaacatgt tttacaattt agtggratga acctacaaat 480
tcataaatgc ttctctttat tttgaaggaa aaagatactt gtctgtatac gacataattg 540
ttttactctt cagaatgtga aagttatatt aatcactaaa cactttaaga agtggttctg 600
gtaggatatc agtagtcaga cttaattgaa aaactgtcag cgtctgtttt gtatataggg 660
attaagaggg ataactttat tttttccttt ggaaagaata attcttttgg aattttggaa 720
ttttgatntt cttagatgac tttttagcaa tttaatgata ataatttcta ttnttcttcc 780
aaaactatgg catgttatag tagatcttac tattaaagat ctgtgtatat tttaaactgt 840
ttttttccta ttctgctttt tgctgctctc aaagactgtg attgatganc atcaccaaac 900
ttnttttgtg ggcaaactgc ttattttt 927

```

<210> 1312

<211> 504

820

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (504)

<223> n equals a,t,g, or c

<400> 1312

```

aatcatanca ttttaatttta agattaagaa tattggcaaa gatttggtta tttttacctg 60
tctttattca aatgtttctaa tatacattag ttccaagttc tctattactt ctaaatagaa 120
tatacatgat caaaagagta tgctctttc taaatgagaa aaactttata ttataaatcc 180
agtgatacgg atactatcca tcattttggt ttgtatggcc taatgtatat cagtaacta 240
aatagactta aatgtggctg gattttgact gggaatatgg gaagaacaaa gcaggtgaga 300
tcatgtatgt gactaaatat agcgttgatg cttaacgatg gcctctgagc atgttaagtg 360
tacttatatt ttgcagccaa aaactgtatg tatcaagctc caaccatcta taataaagtt 420
tnggggtccag ttccaagatg gnaaccaagg gttttttttc cgagacgta agaaaagtcc 480
ttcanccata attcttaacc ttcn 504

```

<210> 1313

<211> 864

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (815)

<223> n equals a,t,g, or c

<220>

<221> misc feature

821

<222> (848)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<400> 1313

```
ctgcttaatt gaagtgtaat ataggttgta gaattgttac ctgcagttct atgggttttgt 60
ttcactttctt ttcttttttta aagccattct gttcttttga tgtgcttgaa aggggtgtgtg 120
attacaccat tgtaaatgct gggtaaaaaac tatcttcttg cagccttgcc tcataacagt 180
ggaattttctg atagacaaac cacaggactt tgattttaag ccaaatccat ctccatccct 240
ttactgtcaa tcttctgtcc cagtagttta gcctttgtgg cttaggttat gatgcgcctc 300
cttctgtgcg accaatgaga cgacttcagc atctttttta aataatctaa gcatcattga 360
agcagtaaca caaaaaaaag gttcagtatt ttcttttttag tataacttac atccttttcaa 420
ataagtcttt gccctcatga agaatcccta gaggaagata aggaaaataa gtatttttcca 480
gttttgcttg acagtttcta aacaaacaaa aataaactca atgaaaggaa agatgttttct 540
tttttagctga gatgacagat tgcttctctg tattaatatag tctagaagtt aaggggatgg 600
tcacattttac catgtattgt gttatttagca gttaaatttt atgaatatgt ttgtaaaatt 660
gttggttttat atttcatgtc aaattgaaaa gtttatttct tcactattgt acctgtggaa 720
atacaagcca ttttacagga aaaaatcttc aaaaactatt aaatggatat cagcctgttt 780
tgtgagccat tgtcttcaga ttctgtggtt gtcnnggggt catagggcat tagtaggttg 840
tacgggtnga ccgatttttc cntc 864
```

<210> 1314

<211> 869

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (784)

<223> n equals a,t,g, or c

<220>

822

<221> misc feature
<222> (836)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (852)
<223> n equals a,t,g, or c

<400> 1314
tnaaccctca ctaaagggaa caaaagctgg agctccaccg cggtgncgac cgctctagaa 60
ctagtggatc ccccgggctg caggaattcg gcacgaggaa cagccaaagt ttatggaatg 120
gtgtgctgag gaggagaacc aagagctcat cgccaacttc aatgcccagt acatgaaagt 180
tcagaaggcg tggntccagt tggagaaaga aggacagcca acaccaagag caaggaacaa 240
atcagataaa ctgaaagaga tttggaaaag caagaaaagg tcacggaaat gtaggagttc 300
attggagagt cagaagtgtt ctctgtttca gatgctcttt atgacaaact ttaaattatc 360
taatgtttgt aaatggttct tagagacaac tgaaccggtg tctctagtca ttgtgaagaa 420
gctcaatact cgccttccag gagacgttcc ccctgtcaag catcctcttc agaaatacgc 480
tccttccagc ctatatccca gttcactaca ggctgagcgc ttgaaaaagc acttgaagaa 540
atttctctga gctacccttg ctaagaataa ttggaaaatg cagaagctct gggccaaact 600
ttcgagagaa tcctgatcaa cgtggagcca gaagatggca gtgatgtcag ccccgccct 660
aattctgaag acagcataga ggaagtcaag gaagatagaa acagtcatcc tccagcaaac 720
ctgcccactc cagccagtac ccggtattctt agaaaatatt ccaatattcg aggaaagctc 780
agancccagc aacgttttaa tcaagaatga gaaaatggaa tgcccagatt gctctnggtt 840
gttgggaagtt angccaagtt cgtaagagc 869

<210> 1315
<211> 1832
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1823)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1829)
<223> n equals a,t,g, or c

<400> 1315
gccggtggct gctgtctctg ggcgggccgt gggaggctcc cgaggtgggg gccggggcgg 60
gatggctgca gcggcgggccg gggccgggag cgggccctgg gcggcccagg agaagcagtt 120
cccgcggcgc ctgctgagtt tcttcattca caaccgcgc ttcgggccgc gcgaaggaca 180
ggaggaaaaat aagattttat tttatcatcc aaatgaggta gaaaagaatg agaagattag 240
aaatgtcgga ttgtgtgaag ctattgtaca gtttacaagg acatttagcc catcaaaacc 300
tgcaaaatct ttacatacac agaagaacag acagttcttc aatgaaccag aagaaaattt 360
ctggatggtc atggttggtc ggartcctat aattgaaaaa cagagtaaag atggaaaacc 420
agttattgaa tatcaagagg aggagttggt ggacaagggt tatagctcgg tgctgcggca 480
gtgctacagc atgtacaagc tttttaatgg tacatttctg aaagccatgg aagacggagg 540

823

```

cgtcaagctt ctgaaagaaa gattagagaa attcttccat cggatatttc aaacgctaca 600
tttgcagtc tgtgacctac ttgacatatt tgggtggaatc agcttcttcc cgttggataa 660
aatgacttat ttgaaaatcc agtcctttat taatagaatg gaggaagcc tgaatatagt 720
caaatacact gcttttctct ataacgatca gctcatctgg agtggattag aacaagatga 780
catgagaatt ttatacaaat accttaccac ctccctttty ccaaggcaca tcgaacctga 840
gttagcagga agggattctc caataagagc agaaatgccg ggaaatcttc aacactatgg 900
aagatttctt accggacctt tgaacctcaa tgatccagat gcaaatgca gattcccaa 960
aatttttgta aatacagatg acacttatga agagctccat ttaatcggtt ataaggccat 1020
gagtgcggct gtgtgcttta tgatcgacgc ctctgtccac ccaacgttgg atttttgccc 1080
aagactggac agcatcggtt ggccccagct cacagtgtgt gcctctgaca tctgtgaaca 1140
gtttaacatc aacaagagga tgtycgggtc tgagaaagaa cccagttta agtttatcta 1200
cttcaaccac atgaatctcg ccgagaagag cacagttcac atgaggaaaa cgcccagcgt 1260
gtcgctcact tccgtgcacc cggatttaat gaagattctc ggtgacatca acagtgactt 1320
taccagagtg gatgaagatg aggagatcat tgtgaaggcc atgagtgatt actgggttgt 1380
tggaagaag tctgatcggc gggagctcta tgttattttg aatcaaaaaa atgcaaacct 1440
gattgaagta aatgaagagg tcaagaaact ttgtgcaacg cagttcaaca acatcttctt 1500
cttggattga cggatgacgg ctcacygaga gcatacttaa aaaacactct gcaaacattt 1560
ggtcacatgc aagttagtgg tcatatgacg gactgcattc aggacaaggg taaagcaata 1620
cttgctttga agaatacat ttcgactcgg tctgctgac tgagggtttt agattttaaa 1680
tatttatgtg gaattaatta aaggtagttg gctatatcgc tatcatttca ttcttttgac 1740
attatgtgaa tattttactg gaaaataaga ctaataaatt gttaaaagtt tttaaaaaaa 1800
aaaaaaaaaa aaacggggggg ccncccaana gg 1832

```

<210> 1316

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (611)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<400> 1316

```

ggagttatca agtggaggag ggattagaac ccaggtatct tgagcccaag caatttgaag 60
gtgtttaagc taattctttt ctatgttttt ctggctgttt atgtactttt gaagtcttta 120

```

824

```

tctttctgtg ttaaaatatg tctatcggtt ttgcatttta cagcatcaaa aattaagaat 180
acttacattc ttctayaaat tgatgcttca aaatagaaaa tttggaattt cagaagctcc 240
agtacagtaa ctaatctgaa attattgatg cattttcttt cgtcagggaa taactttgaa 300
agattcaaat gattttcaaaa tccaactttc taacgtctgg gagagaattc ctcaaacaca 360
tttagcagtc aaaacaattc tatagagtat aaaagatgaa gcatggcact tcgaagtaaa 420
ggttacagtt tctataaatg agaaaaggcc gaatatttgc tagcaaaata tttttagcag 480
gaaagaattt actttgggag gtacttaggc atgttatatt aatactaata tacaagttca 540
gcaatttgta ggagtggaag gaattggatt aaagtanaaa gtcttaatat ctacaccntt 600
aaaatgggga naagcctgtg aatgtgactt aatcaaatcc tggtagntaa accagt 656

```

<210> 1317

<211> 2520

<212> DNA

<213> Homo sapiens

<400> 1317

```

ggcactggag tccgagtcgg cgcactcggt acctgaacag gcgttacagg ccctttggcg 60
cctgcgtatt cgtgaagtgt gaaaaaagcg cgctctgtt gggacgggaa atcagccttt 120
ctattgggtca gggtagaaaa cccgccttt gaggcatttt caaccaatgg aagcgcggca 180
ttcttcattt aaactgtcta taaatttctg cctagtcaaa gttaagagtg gcgccakgga 240
tttgaaccgc gctgacgaag tttggtgatc catcttccga gtatcgccgg gatttcgaat 300
cgcgatgatc atccccctctc tagaggagct ggactccctc aagtacagtg acctgcagaa 360
cttagccaag agtctgggtc tccgggcca cctgagggca accaagttgt taaaagcctt 420
gaaaggctac attaaacatg aggcaagaaa aggaaatgag aatcaggatg aaagtcaaac 480
ttctgcatcc tcttgtgatg agactgagat acagatcagc aaccaggaag aagctgagag 540
acagccactt ggccatgtca ccaaaacaag gagaagggtc aagactgtcc gtgtggaccc 600
tgactcacag cagaatcatt cagagataaa aataagtaat cccactgaat tccagaatca 660
tgaaaagcag gaaagccagg atctcagagc tactgcaaaa gttccttctc caccagacga 720
gcaccaagaa gctgagaatg ctgtttcctc aggtaacaga gattcaaagg taccttcaga 780
aggaaagaaa tctctctaca cagatgagtc atccaaacct ggaaaaaata aaagaactgc 840
aatcactact ccaaacttta agaagcttca tgaagctcat ttttaaggaaa tggagtccat 900
tgatcaatat attgagagaa aaaagaaaca ttttgaagaa cacaattcca tgaatgaact 960
gaagcagcag cccatcaata agggaggggt caggactcca gtacctcaa gaggaagact 1020
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aagtcagagt accttgggtc tgaaggggtc actcaagcgc tctgctatct ctgcagctaa 1140
aacgggtgtc aggttttctc ctgctactaa agataatgag cataagcgtt cactgaccaa 1200
gactccagcc agaaagtctg cacatgtgac cgtgtctggg ggcacccmaa aaggcgaggc 1260
tgtgcttggg acacacaaat taaagaccat cacggggaat tctgctgctg ttattacccc 1320
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tcttaaagca agtttgtctc gtccccctca ctatgaacca cacaaggaa agctaaaacc 1440
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caagaaaact tacaacaac cccatctcca gacaaaggaa gagcaacgga agaaacgcga 1560
gcaagaacga aaggagaaga aagcaaaggt tttgggaatg cgaaggggccc tcattttggc 1620
tgaagattaa taatttttta acatcttgta aatattcctg tattctcaac ttttttctt 1680
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ttatcacctt aaagctcaaa ttctttggga tgggtttttac ttaagtccat taacaattca 1860
ggtttctaac gagacccatc ctaaaattct gtttctagat ttttaatgtc aagttcccaa 1920
gttccccctg ctgggttctaa tattaacaga actgcagctc tctgctagcc aatagcattt 1980
acctgatggc agctagttat gcaagcttca ggagaatttg aacaataaca agaatagggt 2040
aagctgggat agaaaggcca cctcttcact ctctatagaa tatagtaacc tttatgaaac 2100

```

825

```

ggggccatat agtttgggta tgacatcaat attttaccta ggtgaaattg tttaggctta 2160
tgtaccttcg ttcaaataac ctcatgtaat tgccatctgt cactcactat attcacaaaa 2220
ataaaactct acaactcatt ctaacattgc ttacttaaaa gctacatagc cctatcgaaa 2280
tgcgaggatt aatgctttta tgctttttaga gacaggggtct cactgtgttg cccaggctgg 2340
tctcaaactc caccaaattg acttcttatt cattttatgg aaaagactag gckttgctta 2400
gtatcatgtc catgtttcct tcacctcagt ggagcttctg agttttatac tgctcaagat 2460
cgtcataaat aaaatttttt ctcattmaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2520

```

<210> 1318

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<400> 1318

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aaatatgtgt cttttacagt cttttgtcat tctgacattt ctggattttt gctgttttat 60
aattttaccct ttgttattca gaagcatgct tacttataga aactaaatgg tctttataaa 120
agtaattact taaaaagaaa tctggggaag aaagatatct atctaactta ttaaactctt 180
ataaaacatt acattgcaga gggggagcta ctcctaaata tttcatgat ttgcatgggt 240
taatcagatt tttttttttt tacaccatat tagctacctt ttcaatggag aagagacagt 300
tcacacaatt cctgtrttag cacagatgtg gactgagtgc tttgtcacct gcagrtagt 360
aamccagtga tgtttcttac agaagcacia tatgttgaaa atccnggggtg tgaccaatat 420
ggaataaaga agaaggcaga aagagagcaa atgaaaaatt tcaacttgta tattcatttt 480
ttacattttg ctttgacttt taaatttagg aagtccgttt ttacctgagn acaaatgttt 540
aaagttcctg cgctactctc agtactctca ctgccccctcc ca 582

```

<210> 1319

<211> 1099

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 1319

```

agccgggagg cgggaggcgg cggccgcggc ggctgctgct gctgcagtgg gacaggtggc 60
ggcgaccggc ggcgctccgag gagatttaac ccagagactg acttcactat agaaccaca 120
gttgatatcaa tggttgggga aagatagtgg caacaggcaa aggagaaaca gctctgacat 180
acaaagaaaa tgagtatgct aaagccaagt gggcttaagg cccccacaa gatcctgaag 240
cctggaagca cagctctgaa gacacctacg gctgtttagt ctccagtaga aaaaaccata 300

```

826

```

tccagtga aaagcatcaag cactccatca tctgagactc aggaggaatt tgtggatgac 360
tttcgagttg gggagcgagt ttgggtgaat ggaaataagc ctggatttat ccagtttctt 420
ggagaaaccc agtttgcacc aggccagtgg gctggaattg ttttagatga acccataggc 480
aagaacgatg gttcgggtggc aggagtccgg tatttccagt gtgaaccttt aaagggcata 540
tttaccgcac cttcaaagtt aacaaggaag gtgcaagcag aagatgaagc taatggcctg 600
cagacaacgc ccgcctyccg agctacttca ccgctgtgca cttctacggc cagcatgggtg 660
tcttcctccc cctccacccc ttcaaacatc cctcagaaac catcacagcc agcagcaaag 720
gaaccttcag ctacgcctcc gatcagcaac cttacaaaaa ctgccagtga atctatctcc 780
aacctttcag aggctggctc aatcaagaaa ggagaaagag agctcaaaat cggagacaga 840
gtattgggtg gtggcactaa ggctgggtgta gtccgggttc ttggggagac cgactttgcc 900
aagggggart ggtgtggcgt ggagttagat gagccacttg ggaagaatga tggcgctggt 960
gctggaacaa ggtattttca gtgtcaaccc aaatatggct tggtcgctcc tgtccacaaa 1020
gttaccaaga ttggcttccc ttccactaca ccagccaaag ccaaggccaa cgcatanggc 1080
gaattatggc gaccacgtc                                     1099

```

<210> 1320

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (663)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<400> 1320

```

ggcctgatcc aagtgaccat tttcctttta gtttgacttt ggggtgagttg cttagcttct 60
ctgagcctca ttttcttcat ctgtaaaatg ggggtgggtca gcattgttgt tggaggaacc 120
gaatgcctca cccatggtgg gtacttcata ctgttagtgg tgggcaggtg tcctgtcagc 180
ccctccaag gaattcacca cccagcgagg ccactaaaac ctccagagta agtcaatcag 240
ccatactaag gaaagtgcata agggggacag acaagggtgag aagagaatcc tgtgggctgg 300
aggctgcaag gaataagcca agtagaagga gaggaatccc agcgggagga atggggggag 360
caggggcttg ggagatgagg acaggcttag tgatggtttg tgggagacag ctcttgaggt 420
ggagagcagg aggtaggggg tgagacaaaa gtagaagagg gcttcagacc gcaggccac 480
aaggaggagg tccatgagcc cctgaagctg tttgcacaat tggtcctgta catgtatttt 540
tctgcgaag actctgtggt tcatcagat tcttcaagta gtctggggcc attaagawtc 600
cctggtccag ctgggtgcgg tgactcatgc cttataatct tcagcacttt ggggnagggcc 660
ganggcaggg agggattcgc ctagagccca ggaagttttg gaggaccagc ctgnggacaa 720
ac                                     722

```

<210> 1321

827

<211> 255
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<400> 1321
atttacgtat gttacatddd taagtatgag ttaaattgat ataaagtgtt cctcaatatt 60
taataatgta agctgttgct atgacagtat tttttaaaaa taataacgta tattatagtt 120
acgaaacact tgtgccagat tagaacatca agcacagaag cagctgtatg atttacctgt 180
twttttgaaa ctttaatggt taccttcccc katgtttaat ttttctgtgg tgaacacttt 240
tgttagaaca tggct 255

<210> 1322
<211> 246
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<400> 1322
gcaaaaatac cataaactgg gtgtcttaca aacatttctg aaagttctgg aggctgggaa 60
ntctaaggta aaggtcccag caggtttggt gtctggcnag ggcccatcct tcactgcctt 120
cttgctgtgt cactgcatgg tgggaggggc aagcaagctc ccacggcctc ttttacagcg 180
gcccarratt cattggtgag ggttctgcca tcatcacatc atcaccacgt caccttcagg 240
gctagg 246

<210> 1323
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)

828

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<400> 1323

```

gaaaaacaag aaatagaaaa aaaggaagaa ggctgaacta aagcactaat tttataggtt 60
tagttttgtc agaatttagg acatttgga tcctaacatt aaaaggggaat ttatagawgt 120
ctgttcatac cttgtacagg aattctttgt acagcatccc tgtggaaggg cattttaacc 180
cacattcaat tccttcagtc ctaagaacca gctccaaggg agcttgctcn tctagctccg 240
tagtagccac cctggactta catgtttgaa tgcacctggg agggttttaa aagatcaagt 300
tgcccaggnc acanctgcaa accaattaaa atcagaatt 339

```

<210> 1324

<211> 366

<212> DNA

<213> Homo sapiens

<400> 1324

```

caatgccctt watatgtsct ctkgtttcag ggaccytggc aggaaacact cgaattgggt 60
gatttragga gattgtggtg aggggacagt ttacaaagct gtgggcatgt ataggaaagc 120
gcaagggata ggacagggtg ccgggctatt tatagtata ttcacctctg gcctgatact 180
gggaggaggg ggggtgctcc ctgggacaag accctatgga tgaggcttcc tgacaagggg 240
agactgtgac cgtgctccct cctaccagag ctccctactg gccagccca agcagaaaca 300
agagcccatt cacgtccatt cgtgtcatct cccaccgccc agtgcagagt ggagaaaagg 360
tctgga 366

```

<210> 1325

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<400> 1325

```

aaacaatttg cttctggaag caggacagcc ggggccgtgt tcctgcaaca gcagaccaag 60
caccgcgggc ggaccagggc aagcacggaa caagctgaga cggatgataa tatggataca 120
aaatctattc tagaagaact tcttctcaaa agatcacagc tcttagaaat gtgctacgat 180
gtctgtgaag gcatggcctt cttggagagt caccaattca tacaccggga cttggctgct 240
cgtaactgct tgggtggacag agatctctgt gtgaaagtat ctgactttgg aatgacaagg 300
tatgttcttg atgaccagta tgtcagttca gtcggaacaa agtttccagt caagtgggtca 360

```

829

gctccagang tgtttcatta cttcaaatac agcagcaagt ccanacgtat gggcatttgg 420
 gatcctgatg t 431

<210> 1326
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (48)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (138)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (295)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (392)
 <223> n equals a,t,g, or c

<400> 1326
 taatttttcta ttttttagtag agaaggggtt tctccacgtt ggtcaggntg gtctggaact 60
 cccgatctca ggtgatccac ctgcctccca aagtgctggg attacaggcg tgagcaccac 120
 gcccaggctc tgacattntt gaatatccct atcaaccctt ctcaccacc caaagcctgc 180
 tgctcaaagc agctctaagc agaagagatg gagaaacatt cagactgggt ggagcatggc 240
 ccaggctgtg ttgctgcca cttctgtcta gatgggcagt tcttgacttc cccgnctgac 300
 gctgctgagc agccacagtc ccgactgcat tctggcttgt acccttacta tagtgccagc 360
 cacagagagc agccagcagc attttaagta gncaggaaag gcccttctca cagcagtgtc 420
 tggg 424

<210> 1327
 <211> 315
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (303)
 <223> n equals a,t,g, or c

<400> 1327
 gcttttttct aattgaagct tggcaagcrg agggaaatgt attagggaaa tagctttagt 60
 tttgagtggg tgtcagtagc cagctgaaga aaaagcmaaa tgaaataggt agtagaaatg 120

830

```

agaagggaga gagggaaaga aagaaaaaaa tggatgttgg aaattttgtt gcatgttctc 180
tctggatact ccaaaattat cattgtgggtt attgcctcac ttggcttttg ttagccatga 240
aaaaccagga acatttccac taccatttcc tgaccatcca tcaaccacaa tttttaggca 300
ttnggttaaa attttt                                     315

```

<210> 1328

<211> 1867

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 1328

```

cagtttctca agcgaccgat gttgaggtgg gaactgacct tgtcccttct gtcacggtga 60
aggtcacact gcagaacaga gtantattgc aaaaagccaa attatcagtc tacgtgcaac 120
caccattaga attgacttgt gatcagttca cctttgaatt tatgaatcga aatcctgatg 180
gcattccgcg agttatccaa tgtaaattta gacttcccct aaagttaatt tgcctaccag 240
gtcagccttc aaaaactgca agccacaaaa ttactattga taccaacaaa tctccagtca 300
gtcttcttag tctcttccca ggttttgcca gtcagtcaga tgatgatcag gtgaatgtaa 360
tggggttttca cttcttagga ggtgctcgaa ttactgttct tgccttccaa acttctcaac 420
gatatcgcat tcagagtga caatttgaag atctttggct cataaccaat gagcttattc 480
ttcgccttca agaatatattt gaaaaacagg gagtcaaaga ttttgcatgt tcttttctcg 540
gatctatacc ccttcaagaa tattttgagt tgattgatca tcattttgag ctacggataa 600
atggtgaaaa attagaagaa ctcttatctg agagagctgt acaatttctg gccattcaac 660
gccggctact agcaagattc aaagataaaa ctctgcccc tcttcaacac ctggacacct 720
tgttagatgg aacctacaag caggtaattg ctctagcaga tgcagtggag gaaaaccaag 780
gcaatctgtt ccagtcattc accaggctga agagtgccac ccatttggtg attctgctga 840
tcgcgctgtg gcagaagctt agtgctgacc aggttgctat tctggaagcg gcatttctgc 900
cgctacaaga agacactcaa gaattgggct gggaagaaac ggtggatgcc gccatttccc 960
acctgttgaa gacttgcctg tcgaagagtt ctaaggagca ggctttgaac ctcaacagcc 1020
agctgaacat acccaaagac acaagccaac tgaagaaaca tatcaccttg ctctgcgata 1080
gattatccaa aggtggccgt ctctgcctaa gtaccgatgc agcagcccca cagaccatgg 1140
tcatgccagg tggttgtact acaatcccag agtcagacct agaagaaaga tcagtagaac 1200
aagactctac agaactgttt accaaccaca gacatctcac tgcagagaca cccaggcctg 1260
aagtttcacc cctccaagga gtctcggaat aattcaagta gagttgtttg gttgagagga 1320
acatccccat ctcaaggccg aacctgtgtg aacctcatgc caagcacaga tatagggctg 1380
gcgcaggtgc ttcctaaagc tcaccttcct ggagatgaca tgcatagaaa gaggggttgg 1440
gactttttac ttcactagga gaacttgtaa caccatgggg aagtcagctg aaacttgtct 1500
tgttttgcca ggaaaggaag tagttgcctt tggtcacca tctgctaata gtcacagaat 1560
acagtgaat gacatagttt tgggttagat tttataatgc aaagattcag atccaaaata 1620
atttcatacc ccattttttc acagaattct tatatagtaa atgtatcaag tttaataaag 1680
catctcattg tcaaataata tcttggattt tatttataat tagagggatt tatgagtgat 1740
tgctctacat tatttcttca aaggaaagga aagggaattga agactttgct actctctggt 1800
aagacttgaa tgtgattatt ttataaataa ragaaccact atgaaacttt aaaaaaaaaa 1860
agtcgac                                     1867

```

<210> 1329

<211> 537

831

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (130)

<223> n equals a,t,g, or c

<400> 1329

```

ggttaaaata taaccacaat gaatccgaca agtcactgca aggactgtgt gctttatattt 60
gatttgatcat caggaatagg cgatacactg tttggacatc atgaaggaac aatgcaaaat 120
ccatccttttn aaaatttcatt ttttaagttcc atagaagatc caaaaaacca gacttttaga 180
gtataagcag tcaaacttaa gaaaatatta tatttactta tgaatagatg ctaagtcaaa 240
agtaagtccc taataaaattt taatgtactg ttgttacta aatgttccta gtcatttggg 300
ctcagtagtt cagtcattta tcataatgtg tatcaagata gttactggat attgaggtat 360
tggtttataac attacaaata gaaaaatcct agtgtttggg ataggaaatt aatcatatct 420
tgctgatcca aacagtggag tgcttttctg gacattatag atgataatgt aggtatttgt 480
tgatatacag agataccaga aaaaagccca tatttacgat ccaatgccta ttttgta 537

```

<210> 1330

<211> 1351

<212> DNA

<213> Homo sapiens

<400> 1330

```

ctcagactgg tctcaaacac ctggcctcaa gtgatcctcc tgcctcagtc tcccaaattgc 60
tgtgattaca ggcacaagct actgcaccag gcctctgact acatttctat taatatgggt 120
aggttggagg ttttagtatt tttgtatctc atatttgtat caatatgact ggcttctttg 180
tctgtagtgt gtggaatat tagttctgta aactgtcagt tgcaaaaaaa aaaaataacct 240
tgaactatag tatatgttga taattagcca taataatttc ttagttaatt tcttataatt 300
aaatttgtca aagaggaaac ttacagttta tatctgatga aatctctaaa aagatgggta 360
aaacattggg aaatgtatgc atgtacttca ctctgggttc atagggttag caagtgtctt 420
aaaaacatat ataaagaagc acagagattg ttaggagata tttatgctcc cagttttaat 480
aattgggata ctttgtatac cacagaaaga aaaattacta aactcctctt tttttagtca 540
aaattggaaa aaaagtctta attgacagtt actatgcctg tgctacccat agcaagtatt 600
cagtggaaaa tactttacta agtaagtaat ttgaacacag cttaaaatcc atagtatgtt 660
acaattgcta gcctttcaca aagtttgcac tgtcttaatg tagaaggata ctgtgatcta 720
agaattcaca attttaaaaa gtggaaccta aatagggttt cctaattgcc atgaagtatt 780
ttgtatctta gatgaattat atttacaaca ttgtaaatgt cagtgggtga tccaraataa 840
attgtttrrag ttattaraat gtacatttra gtaggtttca gtttgactag aaataattgg 900
caagaaggca agaactagtc ttctagagca gggatcccat ccccagggtc atggactggg 960
actggtccat ggcctgttag aaaccaggcc acacagcagg agatgagtgg aaagcaagtg 1020
aaacttcatg ggtattttaca gcaattcccc gtcgctcgca ttaccacctg agctgtgtct 1080
cctgtgagat cagcagcagc attagattct caaggagcac aaaccctttt ggaactgtgt 1140
gtgagggatc taagttgctc atttcttatg agaatctaac acctgatgat ctgttggtgt 1200
ctcccaccac ccccgatgg gaccatctag ttgcaggaaa acaagctcag gctcccactg 1260
attctayatt atagtgaatt gtgtaattat ttcattatat ataacaatgt aataataata 1320
gaaataaagt acataataaa tgtaaaaaaa a 1351

```

<210> 1331

<211> 1231

832

<212> DNA

<213> Homo sapiens

<400> 1331

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ctgaacactt gaaacatgat gaaagagcca cagagttggc agaactgttt gaaaatgctg 60
tgcaagcggg cttctctgtc ttctttatgg ccagtaaaat tctccagaag agatttatgg 120
cagcctcact ccagtagtct tctgcattta gtgagataag gaatggattt tcttctgtgt 180
attgctgaca cgaacaggag acggaaatac tgagtagaag agrgcggttc cctgctaagg 240
ccccaccctc aagcctggat acccgcggcc ctaaatgaga agaggcgttt ctgtttgggg 300
cccaaaaagt tgccttttga cccaccacgc cccctatcct gccccatat aaaccccaaa 360
ccccaacctc cagagcatac cagcaggtga ggagatacga ggcaagccga ctgacggcaa 420
aacgacgtag cagagaaaaga gagaagagga gggacgtctg gacaccgaga gatgtttggc 480
tcggggcagt cagagcggag tccagcccct gggcgggcca actccagggg aagatcacct 540
tcccacttca tccatcccca cccttcacgc tcccaccca tccctgtgaa agccatttcc 600
accactcaat aaaacctcgc attcatcctt caagtccgtg tgtgaccgga ttttctctgg 660
attctggaaa agagctcggg atacagaaag ctgtcccctg gtcccttgcc cttgtgaaaa 720
agcagaaggt ccattgagct ggtaaacact ccagctgtct gtggtggcca agctgaaaga 780
gctttgtaac actgggggtg caggcaccca cctctagacg ctaccgcaga gccagagccc 840
aaagccctca ccccggcctc tgcacttgcc catctgcgtg ctccccctct cgcaaggggt 900
ttctgcagag ggggctactg aacaggtgag ccacacccct gtcgcacgcc ctgcaagggg 960
aatcagggaa ctcttcctgt tcattgcttt gaccacatcc tataaatctt gttctccttg 1020
tctttcagct ccaatttggt tatacattca gtttttactt ttgactttac tcatgattta 1080
ttatagaaag atgtttaaca attttcaagc aaatggaata atttttgctc ctctttcgtt 1140
gttaatttat tattcattgg agttagaaaa ttgttgctaa aataaattct gcattttgaa 1200
atttaaaaaa aaaaaaaaaa aaaaaaaaag g                                     1231
```

<210> 1332

<211> 1280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

833

<220>
 <221> misc feature
 <222> (133)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (154)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1166)
 <223> n equals a,t,g, or c

<400> 1332
 cacgacaggt ttccccgactg aaaagcggnc agtgagcgca accccantta atgtgagtta 60
 gctcactcat taggcacccc agnctttaca ctttatgctt cccggctcgt atgttgtgtg 120
 naattgtgag cgnataccaa ttccacacag gaancagcta tgaccatgat tacgccaagc 180
 tctaatacga ctcaactatag ggaaagctgg tacgcctgca ggtaccggtc cggaattccc 240
 gggctcgaccc acgcgtccgg gaggcagagg ttgcagtgag ccgagattgc gccactgcac 300
 tccagcctgg gtaacagagc aagactccat ctcaaaaaaa gaaagaaaga aaaaagaaag 360
 tacaagttta taaagtatta tagtgaaaaa ttgcgattct ggctgatttt aagccattta 420
 aaattttatat aaaacaacct tccataaaaa ttgacaggt gccagatgt tgctttctcc 480
 attttttttt tgtttttttt taatcacagt aggtctgata gagaattgga gctaaattat 540
 aatatttttg ttggtaaagt tgagttatat acttgtacat acaatggaaa tgcttttagt 600
 agtgattatt tagcaatttt tgtttttggt atattaggca tgtttgaggg ctttcctatt 660
 ctagcattta aattttaaatt ttattaaaaa taaataattt aaatctagca tttaaattta 720
 aataatttaa gtctagcatt tactttttaa taattataat gaagttttga aatactaagt 780
 taatccagac ctttagttgt cccatgggtg taataaagtt gccaaagaag atgtattatg 840
 aacaattcag caataagaca attgtcaaca cagttgagaa taacaatggt aatcgttagt 900
 aatattttaga attggaattt gcctactgaa atagttatag atgattactt gtgatgtgaa 960
 actgaattga gcatgacaac cagacatttc cagttgggtt tgtaagtttt gagaatctag 1020
 atactgggtt ttattttttg aaagattagc tctgtttgta agggctgatt ccttgaaaat 1080
 gtaattttcc agaaaaacac ctaaagaaaa taaaacatgg acatgcctag taaaaaaaaa 1140
 aaaaaaaaaa aaaaaggggc ggccgntcta gaggatccaa gcttacgtac gcgtgcatgc 1200
 gacgtcatag ctcttctata gtgtcaccta aattcaattc actggccgtg ttttacaacg 1260
 tgtgactggg aaaaccctgg 1280

<210> 1333
 <211> 128
 <212> DNA
 <213> Homo sapiens

<400> 1333
 ttggccaaag aggttaaacc ccggggggttc cccgggggaa aaattttccc ccccgggggg 60
 gktyccggaa accccccaac cggcccggtt yccccggggg ttcccaagtt taaaaccca 120
 aaattttg 128

<210> 1334
 <211> 438

834

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 1334

```

catgcgcaag gagaagcgcg tgtacagccg cttcgaggtc ttctgcaaga aagaggaggc 60
cagcagccct ggggcagggg aaggccccgc ggaggagggc accaggggac agcaaggtgg 120
gcaagtctcg gcccaanatc ctgggcacgt tcaaaagcaa gaartgatct tctggcctgg 180
caaccargc caggtgcccc catcgctgcc cgggtcatcc agaaccgcc ggaacarara 240
ccctgctcat gtgcttgagc agcggctgtc agccacggcc gcttggggct tggctgagtg 300
cgccagacct cggctccact ggaggctcaa catgcagctg ccgtctctgc cccctggcct 360
caccaacagc tgggctgcac ccctcgccac cagtgccttt ctccctcag caccttcac 420
tctgcaccgt cagccttg                                     438

```

<210> 1335

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (346)

<223> n equals a,t,g, or c

<400> 1335

```

gctcacttta cctctcagag actacttggc gaatttctgc actgggtgtgt attctcttgc 60
ctggcaagtt aatagactaa gtttcacttt gtgtgtgtgt gtgtgcatgt gtgtgtaagc 120
actgggtggc tttgttttat tctttgtttc ttgtattcct gtgccacctc ccttccccat 180
tctcccaaaa aagacaagac aaaattaagc acaaatcctc acatttktgt gtgtttatca 240
katacactta caactgtgcc cattattatg tcaagttaca taccttgcaa aatatggggt 300
gtctcctata ctgctggctt gcattctcacc ttggaaggca aaaaanaagg          350

```

<210> 1336

<211> 490

<212> DNA

<213> Homo sapiens.

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

835

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<400> 1336
aagggttttga ctgtgttggg gtggggggtt ggtaagggaa tgggtcaagac tgagaaagga 60
atgaaatcca ttcaggaaat atcgacaggg ctacacrtga tgtcccaaaa ctgctgctat 120
tgaagaactt cccaaaactt ctttacaag ccctaaagga aagtttgcac ctatgaaaag 180
ccaataggtg agacatccaa ttgctgcatg gaaattgatg tacattcagg ggacggcaaa 240
aatagctgta aaatagttaa aaagagcagt ggttgtgctc ttttctggcc aatgrtttac 300
aaaaggaatc tacttggact tctgtcccgg gggtkgaaat ccttaggggt tkggaacttg 360
tgggggaaca tttcccaact tggctaaggc aggggttccn ctgggggagg ggaaggntct 420
attctggggg aanttcaccc ccccggcggc accacacttt tccccccggg gttccccaag 480
ggccccgcag 490

<210> 1337
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (734)
<223> n equals a,t,g, or c

<400> 1337
atagaattct gatgattatg accttctgat aatgaacact ttttccttta gagtgattta 60
aaaatttctg tatttttgaa atcagtacta attgtcattt ttttctctca cagcttcata 120
ttctccaatt cagcctcatt ctctaataaa acatcagcag attcctcttc attcaccacc 180
ttccaaagtt tcccatcatc agctgatatt acaacagcag caacagcaaa ttcagccaat 240
cacacttcag aattcaactc aagaccacc cccatcccag cactgtatac cactccagaa 300
ccatggcctt cctccagctc ccagtaatgc ccagtcacag cattgttcac cgattcagag 360
tcacccctct cctttaacag tgtctcctaa tcagtcacag tcagcacagc agtctgtagt 420
gggtgtctct ccaccacctc attcaccaag tcagtcctct actataatta ttcattccaca 480
agcatttatt cagccacacc ctcttgtgtc atcagctctc cagccagggc caaatttgca 540
gcagtcact gctaatacagg tgcaagctac agcacagttg aatcttccat cccatcttcc 600
acttccagct tcccctgttg tacacattgg cccagttcag cagtctgcct tggatatcccc 660
aggccagcag attgtntctc catcacacca gcaatattca tccctgcagt cctctccaat 720
cccaattgca agtnctccac agatgtcg 748

<210> 1338
<211> 112
<212> DNA
<213> Homo sapiens

836

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<400> 1338

cctaggcctc ctattttattc tagccacctc tagcctagcc gtttactcar tcctctgac 60
 aggggtgagca tcaaactcaa actacgccct gatcggcgca ctgcgagcan ta 112

<210> 1339

<211> 622

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<400> 1339

ncgtcgagga gcctatgaat gcgatatcag cgttatcaga aagscgaaaa aaacttaagt 60
 tgaaccatyc taagtcgggg actgtctrct cacccttgcc gacttgacct ctttttcccg 120
 gttctctaga gtcagtatac caccagcccg ttctccaccc cgcaaggcgt gctttggaag 180
 cctgactcta atcgcgctct cccctgccta aaacctgct gtgatttccc attaccctta 240
 gtacagagcc acattcctta acgtgtccga cgtgggtccg ccctcccaca cgtctgcagt 300
 ttcgttttcc gccagccttg gscttgcttt ctgctcttcg gttcctcaca ccatgattcc 360
 tctaggccar gcgtttgcat gcgctgtctc scctgtaaaa ctaacttccc ttccttcttg 420
 ggctcagatc ccggctcagg tagcagggtg gaggtcaagc agaggagggtg aatcttcttg 480
 gagagcaggt agcatagtaa gaagaaagg ccatggtcag aacctggag aacaccggtg 540
 attaagaggg aggganggag ggaanggat tanggaagga acagttgata ggaggagaag 600
 cagagtgccta tcaacgaaac ct 622

<210> 1340

<211> 624

<212> DNA

<213> Homo sapiens

837

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<400> 1340
gtaacaggag gatatcgtaa ttttctactg ttttattcct ctgtttagacc gggccttgac 60
atgaatgacg ccgtaaggga naaagagatc ttcccaatca gcaatcacccg taaaagcctg 120
ctgtgttccc gttaaaatta ggaaattctc actagatgaa ttgacatggg aggcathtag 180
atttctaata gtcacatagt aattctgcgg aggaattgag tcatctttga tagccatgga 240
attaagcgat gttaattaaa gtgcaaaaga taacctttct gttcttacta gaatagagta 300
ataaaaagaa cctagggtttt cttttgtttg ctggaagaaa aatcaaaatt ctttagttct 360
gtcaaacccag aactcttgaa agcactttga acaatgcctg gaaaataaca ggtactctgt 420
aaatgtttac cttctctgca agtgccctgcc acgtgcccga agaaaagaca cattaataaag 480
ttaagtgaac ccagtcctga ttttatatat tttatatacc taacaacgta tatgttagta 540
tgtagaaaatt atatacctga cttttttccc tacctattac gaactgtact tttattaaaa 600
gctgccactt aaaaataata aata 624

<210> 1341
<211> 962
<212> DNA
<213> Homo sapiens

<400> 1341
tattcattct tttggtcacc tagggatcct ctaagtgtga tattactttc agagaattca 60
gacaagtgag aaacaataat gtaggagtcg gcaaagcaga attcagagac ttcagccaat 120
cactgctgct ctgagaggat ccagtttagag actcagtatc agcggtcaga acttatctca 180
ctcctgtgaa ctttcaggct ggacttaaag ctgccaaagt tcccctgcag gaaggaaaca 240
ctgcytcctt tcagcaggta gtcatttrga aagccaamca ggcaaacgat cctggcctct 300
cccgccagct gaccgctctt cagcatccat gcggttttga gtcgtgactt tctcagtcac 360
gatcaagggt gattttttct taaatatcaa gctgttcttt gaacagggaa tgaacatgag 420
tttttgaac gtgactgaag ttgagtttaa gtaggaagcg caggaagttc ccaagtgcc 480
ggtgtgtgta gtcagaggtt ctttttacag tgagggtgtc ctcactgggg gagcttccak 540
gatcctgagc agactggaca caatcatctc tcccttctc tatgtcaagc actgttacaa 600
aagactgtga gcaaatctcc atctaaatat taataattct gaagaagagg caaaactgtt 660
gaatgcaagc gatacctatt gttgaagaaa cccacaaatt tctgattcta agatcagggg 720
atacaacaaa atctacaagt catttcaaat agcacacagg aatcaaactt tggtaaatca 780
tttctgaggc acaattaaat atattgtagc actatgttaa ttaattatat taaatgtcga 840
ttcatcttga atgtattctc aattgcctac caaaaattgg tatgattatc atttctgggt 900
ctactgattt ttcattcatgg caacagaaat tgtcattaaa tagaattaag atacaaaaaa 960
aa

<210> 1342
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (234)

838

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<400> 1342

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agcgttggtta gtgcatgaag acaagctgcc agagggtttt ggttgatgt tacacagtgt 60
gactagttcc tatctaaaaa ttagtgtagt gtagtttagct ctttatttaa aagtgaacac 120
taatttaact tatctaaaaa tattttaata gttcagacta ataatcatgg attttatggg 180
gattttgaaa gctttgtgtc aagaccatat ttttaacaat atcagaagct ttnnantaag 240
gtgcttggtg ctgagctaata ga 262

```

<210> 1343

<211> 833

<212> DNA

<213> Homo sapiens

<400> 1343

```

cggacctggg gcgcctttgt ctaacagatc tcggtttcct aaaaaactaa accgcctggg 60
gctgtcgtec cagagcccg gtagtaggac catgcgggaa gtgtcctggg gcatatagtc 120
atactgatga ggtgaaagat acacctcgga accaagggcc accctctact ttttaaggaca 180
atggcgccgg gaccaagaaa ctacacttcc cagaaaaccg tgcggccgtg gcaaactctt 240
ctgggtctag cgtgcgctca cactaatgtt tatctcccg gacgtgggca gacctgttac 300
caggcgagct ctgccttttg ctagcaaaaag agctcctctc ttcccaaacc ctgctactac 360
gctgtccacc ctgtatggtc tttgaggtct ttgaggtttt tttggaattc acttgctgga 420
gactacagct cacagaacgc cctgggctgg attgtgccag ctgtagttcg cgaaccaagg 480
acatttctctg gaaatgcatg cggccacgta tctgtgacag aaatggcagt tctcacgtgc 540
gttacgcccc ctggaaggac ttggaatac ggaacttgag tgagcactga gaggacacag 600
accctcatcc tgggaggagt cactcctccc gcagccatca gagcctgaca accgcttctc 660
accagaggcg cttcttagac cctgaccttg cccggctcac ccaaaggggc aatggccttc 720
tttgtagtga agccagacag tctactgttg tatatttgaa ttttttactt tatttttaat 780
attttaatta aattttaatt taatgctgaa aaaaaaaaaa aaaaaaaaaa ggg 833

```

<210> 1344

<211> 446

<212> DNA

<213> Homo sapiens

<400> 1344

```

tgagagtctg acatgcatat cataatttta tgtcaggtat tatagatatt ttgaaatggt 60
gactgactct tttgaaatth taagttcttt agaatgtgac gcttttaata tagcctctgg 120
ttttagatgg agaaacacta tgctattgtc attaaaaatt aattctattt ccccaattgt 180
ctaataatatg tcttaaaaaga tctttcatat tgtgaaacat cagagggtac aacctttgtt 240
cttcagttta ggtattaaag agcacacaga atactgtgtg attaaacatg taaggccaga 300
taatgcattt gcaaagggtc ctttatttta ggtttaagcc tgcataattg tgggtctaat 360
ctcaggatag caagaaagag aattgtacat gaaagtattt acacaaagtt cccaaagccc 420
tgtggattat gcattagttt agataa 446

```

<210> 1345

839

<211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (299)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (345)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (361)
 <223> n equals a,t,g, or c

<400> 1345
 aattcggcac gagcagacct ggattgactg aggtgaaggg gctccttgca gcaatcacac 60
 agaaggctcg ggtcttaaga ttggccctgc tctagtcaa gctgtatgaa ccagggtagt 120
 cactccggct ttcagggcct tgatttcctt gtctgtaaaa gggactttac gatgcatctg 180
 gcaacctcac cttcctcact gggcaatktg aagaccaaatt gccggcaatg aaattcccag 240
 cattaggttt gtcatatagt agtcctctct aagcatttgt tgaatactca caggacant 300
 taggccagtc agcattattg aaataacagg tgggggtttt tttanttggt ttgttctttt 360
 ncgaat 366

<210> 1346
 <211> 426
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (340)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (425)
 <223> n equals a,t,g, or c

<400> 1346
 ggcaagggaa ccccaagctg cagaagctga aaggcgggtga ggaggggcct gttctgatgg 60
 cagaggccgt gaagaaggct aatcgtggca atggcaagac ttcttctcgg attctcctcc 120
 tgaccaaggg ccatgtgatt ctyacagaca ccaagaagtc ccaggccaaa attgtcattg 180
 ggctasacaa tgtggctggg gtgtcagtc cagccctcaa ggatgggctc tttagcttgc 240
 atctgagtga katgtcatcg gtgggtccca agggggactt cctgctggtc aagcgagcat 300
 gtgattgaac tgcctgaccaa aatgtacccg ggctgtgctn gatgccacgc agakgcagct 360
 tacagtcacc gtgactgaga arttctcart gaggttcaag agaacagtgt tggcttgc 420

840

aaggnc

426

<210> 1347

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 1347

```

gggcataact ggtctcgcgt gcgcgtgacc aggncccggt ttccggtgcc aggacctttc 60
cgaagcgtcg agtggcctaa cggtcacagc tgtcgcccat cggagaggca ggactactgc 120
gagcagtttt accgcgacct ccggagccgg cgtgacaggc tctgtcayta aaatagggtct 180
gtccagtcgt actttttcct caccttgaac tttccgtcac gggaatacac gatttggttt 240
aggggcccgg gctctcctga ggagagaggg tttgctttgc ggggaagagc gagtcttgac 300
ttcgcagcct ccaatttcag ccgcggtgtg gaggggggtg ctttggggtg tccccacagc 360
ctttccggag tgcccgcgcg tgtragcttt tgagatttga caatttgtga rgtgcttggt 420
gctgaacttc ggggacgaca ggatcctttt acagtcattc tcctgtcagg graggcargt 480
ggggagcgag gaagatcaga wtcgtaacag acttgagtta aagaattgac aaactccga 540
gntgatttcc tgtcanacct tttgcgg 567

```

<210> 1348

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<400> 1348

```

ccacctggag ctgcttcttg agttggcaca ctatcgtgta cacagcagtc ttcagccccc 60

```

841

```

tggaaggagg ccatagtcgt gtgaggatgg caaagtcgaa caggaagctt tgagtgcctt 120
cctccacgat gtcaacgagg agatccagtg ccagatcgag gtggatggaa caccagggg 180
taggggtgca ggtgtgggca gtgatgtccc ttccccctccc tcccctggtc ccacagactg 240
tggccatgag gntgcaggct ggtgctatga cagcagattg cagcacaggg cctccccctc 300
cagccccccag tgggacatca aaaccaccct ggggccattt gtgcagggca ccacctccag 360
tattgatggg gaaaataaac tcagtagagc cagcagaggg tggagagaag cagggaccat 420
tgtcttcctc aggagcgtga cagctgacct cacagaccat gcttgctggt acacactggt 480
cccagaccca gcctgtcgga catcagcagt gtgctaaaaa cgtgtaagat gtcatastta 540
ccgtgtgtct atctagttga catgggtgga ntcagtaagg gg 582

```

<210> 1349

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<400> 1349

```

ggatacgaat tccctgattt tctaattgct ccagcaacac ctgttggtta tttccacgaa 60
atgcctgtcc ctgccagtca atatctacat ttgcgtccgg ttgttgctg atgttgggcg 120
tatcatcagc ggcagctgcg ccgtaaaattt ttgccggacc gttgccagaa tttccacctc 180
atgcccaacg cgaatcacgc cgctattacg ggcaattaaa ttctgaccaa aatcgacatc 240
gccgttatcc tgggcaatgc ggaaaagatn gcatgtttt 279

```

<210> 1350

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<400> 1350

```

cagngagctg aattctgaag cctgagctac tgagaatgct gataaaagat gttataagga 60
ctgtgttgga acctgctgtg accaccccgcc ttcataatgt tataacatag caattcagaa 120
tagtaacgta tgccccctcat gaaaagccaa gcagtgcaaa aatccactcc aaaaagccag 180

```

842

```

actccctccc agcactgagc cccagcttct gtgttcccct ctccaaaggc agtgggttggt 240
attagttact tgcataatcct gttggatatg tgttttctat cagggataaa ctatacagat 300
atgcayttac aaacatatca tattatttat ctttgacaga aaacacaagt gaagttttage 360
cgacgatata cattgtccta caccttgtat tttagatcta acattgcctt ctagagggtca 420
acagtacaca tgaaartgcc tacgtctttt cattagctgg acagcatgct gttacatgta 480
tangttaata tccgaacctc agtctaacca tacctactgg gncttta 527

```

<210> 1351

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (247)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<400> 1351

```

aaaactggag ctccaccgcg gtggcggccg ctctagaact agtggatccc ccgggctgca 60
ggaattcggc acgagtaaga agagctgggt gtgagaaatt agagataata cggaatctta 120
ttaatttggt gtcacgatat atagtaattt ttcactaatt tctgaccaa ggaaaaataag 180
caattagtag taactaccat gctgtgtttg gctctagagg gcattttaat ataaaaattg 240
ggtaatntta tgtatgttgt acaaataagt ttcattttac aaatgagttt tgccaaatat 300
tttacacact tctagtatcc ataccaaatc tttttaatga gctctaaatt ataaaagtac 360
aaaaagccac tgggaattgag aggatgtttg caaagaagga aatcctgtgg tataaatgac 420
ccaaatttat agtattttca ccatactgta actagattga aggatttttc tattgcatth 480
tgtaatttggt ggaaaacctg tttattttct ctgtcagact tctcttaatc ggaaatattt 540
atagtaaaat gtacacaaaa agtacttttt acattatagg tcatttttaa gttaacagta 600
ttgaaatatt taanatatag gcgaggcatt cactga 636

```

<210> 1352

<211> 554

<212> DNA

<213> Homo sapiens

<400> 1352

```

ccatagtaac tttatttttt ataatagaat tttctatttt tgaccaaaaca taaaatattt 60
ggatatgggc caggcatgat ggctcatgcc tgtattccca gcactttgga aggccaaagc 120
aggagactcg gttgaggcca gtagtttgag accagcctgg acaacatagt aagattcatc 180
tctacaaaaa aaaaaattag ccggatgtga tggcacatgc ctgtaatccc agcactttgg 240
gagtctgagg caggaggatc ccttgagtc aggagtttga ggcttccatg agctrtaatc 300
acaccactgc accccagcct gcrtgacaga gtgaaaccct gtctctaaaa agtctgaata 360
tgaaaattat attggcagca tactcagaca taaactccaa agttgtctct acactgattt 420
cacatctgca taattttctg catacccagc aggtgaattt tcagtttttc tgggagacaa 480
ttttgaagag atggtgaaat agaatgggaa gttaaggagg ggaggtaaaa tgtttttaaa 540
gagaagaaca aaaa 554

```

843

<210> 1353
<211> 683
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (672)
<223> n equals a,t,g, or c

<400> 1353
atagccaatt ctaaggggatg tacttctgtt attatcaaca aaaaccttgc caacagctgc 60
ggcactggct actctcacct tatatgttta gttcccaaga tagcttgccc ttttccgaac 120
agcagtcagc tcgactgtgc cactaaaaca gacaaatatt tgctcgggaa tcacaaccac 180
ggggacttgc tccccaggtt aggaccatgg tacatatttg tgtgtatatt atgggtgttac 240
atgcagatta atactttcaa ttaatcctcc tagttgcctg taacgttaac atttcaagat 300
gcatttagat atttttatcc tgtaggagga ttttgtttat ttgagggaaa aaaaggggctt 360
ttaatgtatt ctctcaaaa accatttaga gaaaacagat aagtaaaaat aarattttaa 420
ttaccatatt tctatttaca gggatgagca cattaacatt ttatgtattt agtgatcctt 480
tttctcatg tgtacacata tgtttttgtg tgtagtctt gcttgccctc cccatagtct 540
gaaatagktc tatgragttt atattawttt taaacytgat catatmcaa ttttcagggg 600
aacaaccac tctagctatt tggaggaggg aatgcaggtt tatattgggg gagttttgga 660
aactaccatg gnttccttac caa 683

<210> 1354
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<400> 1354
ttgttgattt ttgactttgc ttgtagctgc tccccgaact cgccgtctts ctgtergcgg 60
ccggcactgt agattaacag gaaacttcca agatggaaac tttgtctttc cccagatata 120
atgtagctga gattgtgatt catattcgca ataagatctt aacaggagct gatggtaaaa 180
acctcaccaa gaatgatctt tatccaaatc caaagcctga agtcttgac atgatctaca 240
tgagagcctt acaaatagta tatggaattc gactggaaca tttttacatg atgccagtga 300
actctgaagt catgtatcca catttaattg gaaggsttct taccattcag gcaatttagt 360
tacttcatct gtggagtaaa ggagtggatt ttattgtcnt tcgtcttaca ttcgtattta 420
tatnacataa gttt 434

<210> 1355

844

<211> 433
<212> DNA
<213> Homo sapiens

<400> 1355
gcgatagtgg gagtggttaa gaagacagac taacagacac ctgttacttt ggtgtctgca 60
tttttagtagc tttcttttaa gcagttgtaa actgtgctag ggcatgtgct ttatctttgt 120
cttgacacct atctcttctt tgaccacctt gttatatgta tgaccacctt taagaatttt 180
aatttttgtgt gctgcctccg tcaactgctgt gaacacccac atggagtcag gcacccaccc 240
accctggcac ctgctagcac cctgctgcac ctaacaagtg tataccctgc tgcattgctg 300
ctgcttctggt tatgtgtgaa tgargacaat cttgttgctg tcacttataa atgctttatc 360
tggcaccacc catcggtgtw tartgamtgg tggkctgara rtaccttagc cccaaccccc 420
scccacacca gtg 433

<210> 1356
<211> 632
<212> DNA
<213> Homo sapiens

<400> 1356
tttttttttt tttttttttt ttggataggg tcttctcgtc ttgctgtttt tcctttttat 60
atwttaacat twctttgttt gtawatcmag ttgtwcwtaa aatatcttcc araaacattt 120
cttttacttc aaatggtcwt ccctgtatat atatcamtgg acaacttcca aaatatctta 180
taaagagatt tacatcmaag gcagcactag aaagaattag tttcaaagtt ggggtgctttt 240
gcaacaaatc tettaacttt gtaagtaaaa aatcactaaa tcgatccctt tcatgcactt 300
catccacgat aacatgtgtc acagtcgaca acgtactatc tcctgccatc aatgtacgaa 360
gcaatacccc attagtacaa aatgtcagaa gtgtytttgg agaaacctg ctttctaata 420
ggatctgata accaattgtt tgaccaatcc tttcccgctc ctctgcggca actctttcag 480
ccacagcgat agctgccaat cgtcttgggt gagtataaaa tatacggcag gggataccat 540
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ctctacaat caaaactact ttattttctt ta 632

<210> 1357
<211> 968
<212> DNA
<213> Homo sapiens

<400> 1357
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ccaaagcagg aatgaacacc cccttaacgg cgggcaaaaa accgagggga acccggactg 180
gccaagaatc ctgagkagtc cgctacattg ccaamgyktc cgctgccaka cgaaagcgag 240
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aggccgtgtc caaagacttt gcgtaaccac gcctgggttct gtacatgtgr aaaactcaca 420
gatgggcaag gcctttggct tggcgagatt tgggggtgct aatccaggac agcattacac 480
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gcatgtctgc atgaaggtct acctgaaaat tcaacatttg ctttttgctt gtgtacaaac 780

845

```

ccagattgaa gctaaaataa accagactca ctaaatacctt tccaataatt gactggtgga 840
aggaaaaacaa aaaacaaaaa ctaaaaacct cttagctttt ctgcaattca actttttatt 900
tttatttttta tttctatcaa agacggtaga gagaaacagc ttgatgctgt ttctacatta 960
aaaaaaaaa                                     968

```

<210> 1358

<211> 718

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (678)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<400> 1358

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cacaaaaaaa agtacattgc tgattccatt tcagcatcac tcaattacca ttctctaact 60
gtctctgatt tgtctttacc aaaagccaca tctggcataa ttggcaaaag actttttttt 120
tttccccacc attccaatga acacaaaaat gacattctca acatcaaadc aaatgatcac 180
attttttattc atatttttact ccaactgaaa tgaaggatat aactaatttg tccatttttc 240
tttaagcaca tatctgtatt catttttgata acccagcact cttgattgtt cccttactga 300
atgtttgtct cttagtatcc ttgcccatt ctactccttt aaaaaaactg ttgcagtaac 360
caaagagtta tttttgattc cacgtctttg tcaaactaaa gtcagctctt tgaggcttct 420
ggattttgat attaaatatg tgtttagcag ttcaaatttt atatatgtat attctagctc 480
agatccagaa atctattttcc ttcttatcat tctcacttgg attcctcaag caatttaaca 540
tgctctaaat attttctcca tgtttattta gggttcaact ctacatacag aatagactaa 600
tttaataatt ttataacaatc cttggccttt acttttatatg atcttctaca tccaatagaa 660
ggttggtcaa gtaaacnta aaaacctatc gnacactttt taatctctga attttcat 718

```

<210> 1359

<211> 1628

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

846

<222> (1600)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1625)

<223> n equals a,t,g, or c

<400> 1359

```

ccnggaatnc cgggtcgacc cacgcgtccg gcgcgctgcc agcagccagg agccaggagc 60
caagagcaga gcgccagcat gaacttgggg gtcagcatgc tgaggatcct ctctcctctg 120
gatgtaggag gagctcaagt gctggcaaca ggcaagaccc ctggggctga aattgatttc 180
aagtacgccc tcatcgggac tgctgtgggt gtcgccatat ctgctggctt cctggccctg 240
aagatctgca tgatcaggag gcacttattt gacgacgact ctccgacct gaaaagcaca 300
cctggggggc tcagtgcacac catcccgcta aagaagagag cccaaggcg aaaccacaat 360
ttctccaaaa gagatgcaca ggtgattgag ctgtagggtga gcagtgcgt gaagaggggt 420
tctagccccg tggaaaacag cccatgggta acatctcagg atgtyctgca ttcaaacc 480
caaggctggt atggaacttt cacatggact gaatattgga ggcaaataat agaaggaata 540
gaatatacag tgcctctgtc ctgaaggaaa atatcatgcc tcttctggaa gaaacggact 600
gcacagagag aggattgagc aatttagcct gcagtggag aaggtggaca ccaaagctt 660
caccctggtt tggagctgtt catgcttcca tgaggccatg gtgtccatgt ccgtggaacc 720
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ccatcttatac aacagttagg cactactttg tagaacgatt agcttcaccc tcttagctgc 840
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acaatgtaca tggctgttgc atagaagaca tgactgggtg aggctgagga aagccatgac 1200
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aaaaaaaaaa aaaaaaaagg gcggccgctc tgagaggatn ccaggcttta cgtnacgccg 1620
tgnncngcg                                     1628

```

<210> 1360

<211> 1297

<212> DNA

847

<213> Homo sapiens

<220>

<221> misc feature

<222> (1280)

<223> n equals a,t,g, or c

<400> 1360

```

gccacgcgt ccgcactccg ctcggtcac catgtgtcac tctcgcagct gccacccgac 60
catgaccatc ctgcaggccc cgaccccggc cccctccacc atcccgggac cccggcgggg 120
ctccggtcct gagatcttca ccttcgaccc tctcccggag cccgcagcgg cccctgccgg 180
gcgccccagc gcctctcgcg ggcaccgaaa gcgcagccgc agggttctct accctcgagt 240
ggtccggcgc cagctgccag tcgaggaacc gaaccagcc aaaaggcttc tctttctgct 300
gtcaccatc gtcttctgcc agatcctgat ggctgaagag ggtgtgccgg cgccctgcc 360
tccagaggac gcccctaacg ccgcatacct ggcgccacc cctgtgtccc ccgtcctcga 420
gccctttaat ctgacttcgg agccctcgga ctacgctctg gacctcagca ctttcctcca 480
gcaacacccg gccgccttct aactgtgact ccccgccact cccaaaaaga atccgaaaaa 540
ccacaaagaa acaccaggcg tacctggtgc gcgagagcgt atccccaact gggacttccg 600
aggcaacttg aactcagaac actacagcgg agacgccacc cggtgcttga ggcgggaccg 660
aggcgcacag agaccgaggc gcatagagac cgaggcacag cccagctggg gctaggcccg 720
gtgggaagga gagcgctcgt aatttatttc ttattgctcc taattaatat ttatatgtat 780
ttatgtacgt cctcctaggt gatggagatg tgtacgtaat atttatttta acttatgcaa 840
gggtgtgaga tgttccccct gctgtaaagt cagggtctctt ggtatttatt gagctttgtg 900
ggactggtgg aagcaggaca cctggaactg cggcaaagta ggagaagaaa tggggaggac 960
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cattaggaat gagatccgtg agatccttcc atcttcttga agtcgccttt aggggtggctg 1140
cgaggtagag ggttgggggt tgggtgggctg tcacggagcg actgtcgaga tcgcctagta 1200
tgttctgtga acacaaataa aattgattta ctgtctgcaa aaaaaaaaaa aaaaaaaaaa 1260
aaacycgggg ggggcccggg acccaaattc ccccaaa 1297

```

<210> 1361

<211> 2704

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1438)

<223> n equals a,t,g, or c

<400> 1361

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gggccatcct ggcgggtcaaa tccacgcggc agaagcagca gcacctggtc cagcagcagc 60
ccccctcgca gccgcagccg cagccgcagc tccagcccca accccagcct cagcctcagc 120
cgcaacccca gcccgaatca caaccccagc ctccagccca acccaagcct cagccccagc 180
agctccaccc gtatccgcat ccacatccac atccacactc tcacctcac tcgcacccac 240
accctcacc gcacccgcat ccgcaccaa taccgcaccc acaccacag ccgcactcgc 300
agccgcacgg gcaccggctt ctccgcagca cctccaactc tgctgaaag gggcagctcc 360
cgggcaagac aaggttttga ggacttgagg aagtgggacg agcacatttc tattgtcttc 420
acttgatca aaagcaaaac agtctctccg ccccgcacca gatcaagtag ttggacatc 480
accctactga aaacttgcca ttcttcttag ttttctgcat acttttcac acgatgcagg 540

```

848

```

aaacgatttc gagtcaagaa gactttttatt tatgaacctt tgaaaggatc gtcttgtagt 600
gtgaattttc taggagcgat gatgtactgt aattttatct taatgtatct tgatttatga 660
ttatttatta gtttttttta aatgcttggt ctaagacatt tctgaatgta gaccattttc 720
caaaaaggaa actttatttt caaaaaccta atccgtagta attcctaate ttggagaata 780
aaaaagggcg gtggagggga aaacattaag aattttattca ttatttctcg agtactttca 840
gaaagtctga cacttttcatt gttgtgccag ctgggtgaaa ttaaaactct gatattactt 900
tttttgagga tttttatttt tgtttttgct taaacatata gtttgtctag aagtttaaaa 960
agctaaaagt taaaaatggt gtaattatga aaatctaaca ctcaagatag tttctaaaag 1020
gaaatcagta gttaaggata cctgatttca aaatatttaa agcataacct aactgatggt 1080
aggatgattg tatcttgaat atgtggtagg gccacatcta ttgtaggaaa accttgcttt 1140
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aaacttaagt ggacccccac ttccagtggg tgtttagggt gcagttgtga aaatatgctg 2160
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atgtagggtt taaaaaaggc atttgtatgt tgttagctta catatggggc taggtaattt 2580
cattgcttaa aaagatgcgc ctaggctccc tcttggtggc tggatttctt tttcttcsy 2640
cgtggtggcc atggttctta atagggccac cggaatcakg gtttctttct tttttttttt 2700
tttt 2704

```

<210> 1362

<211> 910

<212> DNA

<213> Homo sapiens

<400> 1362

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gagtgccttc gagcctgtgt cctagggttc cctgatggac caagccttct ccttttgaga 60
ctcctcatcc agtttcttta gttcttcata tatcactgtt tttcagatct ctggctatcc 120
ttgccattga cctcagaaat cctgtatttg accttaacct tcttataccc agtccatacc 180
caaagtgatg gaaatggaat agatttcttt ttaaagtttt aaacgaatat tttgactgaa 240
aaattttggc agtcttgtat gcaaatgaca ctgcagagca ttgttttctc cccccacgg 300
taggarattt tattcaacta aggcacaggc atattaaaag actttcagta taaggaaaag 360
gggtaagttt awtccctcca aatttgacta cagctcgaaa ttgtctttat taatgcaaag 420

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849

```

ttcttttgtc accttgactt tgggacactg ttaccaaacc tcgtgggaaa tatcaagtgc 480
cagaagattg aatacatgca ggaaacaaat gttttttggg ccctagagtg aacatttggg 540
ccatatgaaa atgaccagga agacaattag gtgaagggtt tttaatgatt tgtgctacgt 600
cagtctcttc ccataagaca tattcaaagt tttaactttt ccttaagagg cttccatggg 660
gagcaagcat ttgataattc atcctttaag aaaaacacca ccgtacactg cttgaagagt 720
tcctcttcta ttacttaaaa cgttttttatt gtgcaacatt taaggcatac aaaaacatat 780
aaagaatacc atgatgaaaa tctatgactg tattaccaag ctttaagaaat aaaacagttg 840
agtgatctct catttatgac taaattaact tattaanaacc attaaaactt ttggattatt 900
cctgttaaaaa 910

```

<210> 1363

<211> 1823

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1729)

<223> n equals a,t,g, or c

<400> 1363

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ctgcaatgga aacgatgtcg gccaaacana aacaactggg aaaatgggcc cctaactgtg 60
cancaactgt gcgtcacctc ccgcctccca gctccccgca ggamtcccg cttacattg 120
tcttcccccc acgactcctc tgctctctcc caaactcctt cccaccacct gcagctcttt 180
gaccaggaca gctccaatgt gttgtcaagt gagtgtcccc agcaggaggc ntggcgggtg 240
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cggggtgccc tgcagccaca gcctgaggga gccgcctccg accttcccc gccacccgac 420
gatgagcccc agcctggatt cgagggtcatt tcctgtgtgg agctggggcc tcggcaaccg 480
tggaagcggg cctccagtta cagaggagga gtgggcaacg cacgtggggc ctgaaggtcg 540
cctgcagcag gtccttgagc tgaagaaccg gatcttctcg gggggtctga gccccagcct 600

```

850

```

gcggcgcgna ggcctggaag ttctctctag ggtacctcag ctgggaaggc acagctgagg 660
agcacaaggc ccacatacgc aagaaaacgg atgagtattt ccgcatgaag ctgcagtgga 720
aatctgtgag ccctgagcag gagcggagaa actcacttct gcatggatac cgcagcctca 780
tcgaaagggg tgtgagccgc actgacagga ccaacaagtt ctacgagggt cccgagaacc 840
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cgttctgcac aggcacttta gcccgagcca ggcacacctg cgagggggca ggtgtgctcc 1680
gccgccctgc tgataagctg gcttcattaa actgacactt ctcawtgna aaaaaaaaaa 1740
aaaaaaaaagg gcggccgctc tagaggatcc aagcttacgt acgcgtgcag ggacgtcata 1800
gatcttgtat ggggtattgg aaa 1823

```

<210> 1364

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (428)

<223> n equals a,t,g, or c

<400> 1364

```

aattccccgg caacaatttg aaaaactact cgaagttctg cgtttcagcc ctgaacctga 60
aacataaaat gaatgcaatt gttgttggtta acttgtttat tgcagcttat aatggttaca 120
aataaagcaa tagcatcaca aatttcacaa ataaagcatt tttttcactg cattctagtt 180

```

851

```

gtggtttgtc caaactcatc aatgtatctt atcatgtctg gatcgatcct gcattaatga 240
atcggccaac ccccggggag aggcggtttg cgtattggct ggcgtaatag cgaagaggcc 300
cgcaccgatc gcccttccca acagttgcgc anctggaatg gcgaatggga cgcgcctgt 360
agcggcgcat taaagcgcgg cgggtgtggt nggttacgcg cgggaaccgg taacantggc 420
cagggccnaa ggccccgg                                     437

```

<210> 1365

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1365

```

gggattacag gcgtgagcca ccacgcttgg cctgcccttc taatttttag aagtttgtgt 60
ttctacctct gaagtgttca tgggagagtg aaggtagaga gtggtccaga gcagggtggc 120
cccagcacac cctgtgtgtc aactgattcy gagaatcatc aaatagacaa gaatttaagt 180
cttccgtttc tgtggtcatg attaaggtgc attyttttaa gacttaaaaa cttactggct 240
ttaggaagga gagttcttat aacctccag caciaagtga catactttca ttctctgcta 300
cttctgtgta gtgttgcttc actgttaatg tttgtggctc ttcaagagcc agtctttagt 360
taatcatatt accataaggc cgtggttctc aatcggaggt gatttcccca gggggacatt 420
tgggcatgtc ctggaggcat tttggttgtc acattggcas cccggtgtaa wactacctcy 480
gacaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggcgctt ttg                                     523

```

<210> 1366

<211> 2155

<212> DNA

<213> Homo sapiens

<400> 1366

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tgatttggtc ttccactcag agttgagtg tttatcacag agtgtgttat ggcttagacc 60
aatacaggtc ccttcttaat agtggtagct cctttttatc ctgaggatta agccattaca 120
aactcaaatg accagagaat gtaatttctt aataagaatt tttccttaaa tctatattca 180
gctctctatt tcagtgtctc tctcctacca gaggtgcaag gagtgatcct agaaccacag 240
atacagccaa gaccacggag agcttttgac gtcaggggtc cactttctcc actgaaccct 300
tggagacaga atatccagct tctggagaga gtgggaaagg ataataaaca aattttctttc 360
aactggtaaa acatcatact tcttcagcaa aaggaattct tctagcagag ctttcatgga 420
tgatatctgt cacacatgcc wkcacctgca gtttggaagg cagtggtgaa tggatccatg 480
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taagaattac tctggtttac ttttgggtctg aaaatggaaa ggcccaaata atgaaataat 600
cttttcagat tgggaatttta catggccatg aaaatatctc tttctattca gaagactgaa 660
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852

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ctcaaaagtt ttagaagcca catttgctaa agcataacct gcacttagtc tttcttggct 1440
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aagtttaaag gttcaawttg aactgaaatt tccccagaga gctttgaatt ccataaagt 1560
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tgtaagtgca tttctagtca cctcatgcca ctacaagcta tttatttaaa agtgaaactt 1920
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attaatataa actatttttt tctagaatga ctaattgtgt aatatctgta ttatgtgata 2100
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<210> 1367

<211> 1724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1701)

<223> n equals a,t,g, or c

<400> 1367

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cgcgtgccgc agaaagatct cagagtaaag aagaacttaa agaaattcag atatgtgaag 180
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aattttgcaa acacgaggct gcagtcagtt cggaaggct gtaggacccg cagccaagtgc 300
aggcactctg gacctctcag ggtggcgatg aagtttccag cgcgaggtac caggggagca 360
accaacaaaa aagcagagtc ccgccagccc tcagagaatt ctgtgactga ttccaactcc 420
gattcagaag atgaaagtgg aatgaatttt ttggagaaaa gggcttttaa tataaagcaa 480
aacaagcaa tgcttgcaaa actcatgtct gaattagaaa gcttccctgg ctcgttccgt 540
ggaagacatc ccctcccagg ctccgactca caatcaagga gaccgcgaag gcgtacattc 600
ccgggtgttg cttccaggag aaaccctgaa cggagagctc gtccctctac caggtaag 660
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agaagccgtc gctccagatc atccgtgacc cttccgcata taattcgccc agtggaagaa 840
attacagagg aggagtgtga gaacgtctgc agcaattctc gagagaagat atataaccgt 900
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853

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gaatttcaga gaagagccta aatagcaaan ttacacaaa aacgagtatg atttagcact 1680
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```

<210> 1368

<211> 373

<212> DNA

<213> Homo sapiens

<400> 1368

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ggaacaaagt tacaaattaa ttgaaatcca tactcttctt aagcagcttg gacctactac 180
tgtcccatat gtaagtatgc aaaactacat ttgccaaga attaactcat gagaaccatt 240
gaacttgatg tgaaagtcac cttaacagtg gtattgtgct ctgtaaaact ggaatctttt 300
cccacaagat gcatgtaaat aagagatctc aaaaatagaa agactctctt tctcaaagaa 360
tacaaacagg tgt 373

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<210> 1369

<211> 821

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

854

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (725)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (775)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (797)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 1369

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tagccttttg ccctcatcac aacttagtgt gaggtatgtg ttcctgtcct aattctacag 180
agaaggaaat tggaattcag tgagttcatg ttcttacagc tagtgactgg tcgatccasa 240
attagagcac mggtccgtct gactccaaaa cctatatgtg cttttcacta taccacaata 300
acaacgaata tttgttctgt acaattcaca actctttggt ctaccttatt attattatta 360
ttattactac cactacttac atcttacta gtcagtargt acagccwaga ttatcacgac 420
ccccatttca ctggtaggga aactgagact cggaagcttg cccaagatca cacagctggt 480
aagtggagga gaaccaggac ttcagacaga cttcctgact ccagatcttt tttttctttc 540
catgacatca cattgctgcc ttaattcatt tgcacaatgc atgattgtat ggccagtgtt 600
cactgacacc tttcctacag aagtatcaat gagcccaggc attacgtaga gccatgtgga 660
gaagaaaata attcatacct ttcagaggag cttccatttt agtggggggt gatacaaagc 720
accngaaag taaatgcctt gagaatagtt cacaagttaa gaatttaaaa tatanggccg 780
ttgtttccat aatgaanncc cataaatttg ggccataaaa c 821
```

<210> 1370

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (414)

855

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<400> 1370

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caataatgta aaatatgaag tgtatgtgta cacacatddd atddtttcggt atcttgggta 60
tacgtatggg tgaaaaactat actggagtct aaaagtattc taatttataa gaagacattd 120
tggtgatggt tgaaaaaatag aaatgtgcta gttttgttdt tatatcatgt ccttdgtacg 180
ttgtaatatg agctggcttg gttcagtaaa tgccatcacc attdccattg agaatttaaa 240
actcaccagt gtttaatatg caggcttcca aaggcttatg aaaaaaatca agacccttaa 300
atctagttaa tttgctgcta acatgaaact ctttggttct tttattdttg ccagataatt 360
agacacacat ctaaagctta gtcttaaatg gcttaagtgn aactattdcc taantgctgg 420
ntg 423

```

<210> 1371

<211> 653

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (649)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (651)

<223> n equals a,t,g, or c

<400> 1371

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cgggtcgacc cagcggtccg agcaacagcc gtagcaaaag cagctgctgc tcctgctatg 60
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agaggggaaag agccttgat catatgtgaa cattgtatca taggtaatgt tgtacagacc 180
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cctccctgct actgctgatg cactctctc tccctgcagc ccctggcttc ccagccttdc 360
tcctgacccc ttccaacagc cttggaactc cagctgccac caccctctgg gtcggacact 420
gggacccact ggcccagctc tggctgctgc ttacccctag ccttgatgcc tgcccaggga 480

```

856

```

ccccagccc cctcccgttg ccctgcagct ttaacagagt gaaccatgtg tattgtacag 540
gcgcggttgt cattgcagaa accgctgggt ggagaagaag ccgataaagt ctatgaatca 600
aaaaaaaaaa aaaaaaactc gagggggggc ccggnaccna attcgccna nag 653

```

<210> 1372

<211> 907

<212> DNA

<213> Homo sapiens

<400> 1372

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atTTTTtact gctaccacaa tactgctgct gttgctgctg ctacattaat ttatgttgct 60
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acatgttttag gttccaagta atatatggcc taaagaaatc caaaaaatgg taataatccc 180
agtcatggat gccatacact tctaacctgc agcatcccca ctcaagaact gcctgcctat 240
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tacctatggc cccctgccat cctctacaga gctattgttt tatacatctt acacattaga 360
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ctgtatgact ctataaatca cacccttaac tcagtgagct ccgaaggctt ttgagtgtga 480
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cttagggctc tatTTTtata aaacattaac aattttaaag atgatatcta ataaacagrc 660
cttggtataat tatctTTTTa agattgcaa atgttttcta atatcttact cattgtacta 720
aaccctaggc ttctgttcat tttaatttta ccataaagggt aaaaacatat atataagtca 780
ataggtaact catttctttc attaaataat caattaaata cgtcattctat gatgtacaag 840
gcattgtata gaacactata ttgccaatca aagtgctagt aaaaataaaa gttttaaagt 900
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<210> 1373

<211> 3036

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 1373

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ctcctttgtt agttcttcaa ggagtgcac acgcggccat ctgggcagca tgcatttctt 120
acctcagtgc agccgttccc cctgagctga ggacatctgc tcagggcatc ctgcagggcc 180

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857

ttcacctggg tttgggaaga ggatgtggtg ccatgatcgg aggcgtgtta gtcaattatt 240
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aggaagaaca ggaagatgtg aacaaaccag cctggggagt cagctcttct ccctgggtga 540
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<210> 1374

<211> 2652

858

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (685)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (708)

<223> n equals a,t,g, or c

<400> 1374

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caactatatt tgctcataga atacttagtt tattaaccag ttgctctctt gataactaca 180
gatgttggtt aattgtatca gataaacttg atagtcaagc agaagttttt atataaagat 240
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tgtaaacatg ttctaataatc ttaatcatta aagtgttcat gattttaatt tagactatag 360
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859

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gtatcctcat tagttctttc ttcaggcttg tgtcttttagt tgcgtggctg cgcaggcctg 2400
ccatatgatt taagccatct cttttcatta aatgtttctc ttctgtgag acttactaaa 2460
gcaacttagt ggcaaaaagt aatgtttgtac ttataattct gtacagaaat gacaatgagc 2520
tgaatatatg gttttacaaa gtagacatcc acttgcaaaa tgtttgatg taatgttaaa 2580
gcgcaatgtg caaaatttaa aataaagaat atttattaat acgcacagta aaaaaaaaaa 2640
aaaaaaaaaa aa 2652
```

<210> 1375

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<400> 1375

```
gcaactctgt gggatggaca tgcagccgtt tggcatgggt atgaagttca tggaatggaa 60
aaaataccag aagatggacc agcacttata attttttata atggagctat tcctatagat 120
ttttactatt tcatggctaa aatatttata cacaaaggca gaacttgccg agtagtagct 180
gatcactttg tctttaaaaat ccagggttta gtttattact ggatgtggtt tgtgctctac 240
atggaccaag agaaaaatgt gttgaaattc tgaggagtgg ccacttgta gntatctcac 300
caggtggant tcnagaagcc ctaatta 327
```

<210> 1376

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

860

<220>
 <221> misc feature
 <222> (631)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (641)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (673)
 <223> n equals a,t,g, or c

<400> 1376
 ggcacgagta agacgaagca gagtagacac acccaatacc tgaaaaatgt tcattgggttt 60
 tactagagta ttgaggaggg tcctgctgac accccttggg ctggagaggc ctcctctgaa 120
 agggagccct gggaaagggc tgctctcact cttcactcct ttctnctccc tcagatccac 180
 ctgttccctca ggtgcctgct cttccccgtn agggaaagccc aggagaccag gcagctgcmc 240
 tcttgacagc caggtaccag gtgagctgag gaaccctctg cttttcctca gggactattg 300
 ctactgatgg agtgtggcct ctctctcatc ccatctgtag accttgcctg gaattttttt 360
 caatagcaga ctccagtttg ggaattgatc ctcttcggag acctggactt cacataaacc 420
 aacttcccat ctccccagtg ccatgagcaa actctgtttt ctctttgtcc atggttgtgt 480
 gatgggtgct tattagatgt ttaaggggta tgggctttat tccgtaggtt ctaatctgtt 540
 ctccctcctc ctcaacgtaa gtacacagtg gataccctct ctatgatctt cattctcttg 600
 ccatgggtgct acaagtgttc tcattcctca nagcagccag natgtgttat ttcaggagtt 660
 tgtgacattc gangatgtgg cttgtgcacc ttactcgaga ggaatgggga tacctggacc 720
 ctgttcagag ggacctctac agagaagtga tgtagagaa ttatgggaac gtggtctcac 780
 tgggcatact tctccgcctt cccaccaccc ggattcatag tgtgaattcc tgcccggccc 840
 tgagtcatac ccaggcaagt gctttctctg gagaaacact tgccgtcctt acagcaggaa 900
 tctccaagag atggcccaag tatcggcttc ccatcgatat tgctcgtccc tgctcggaaa 960
 ctctttttcc acgattgtga gatattaaaa ttgactgatg gaatagaagc tccccaggat 1020
 gccaccactg tgtaaaatcg cagctcctca aattacctct gtttaatttc aaatgttagg 1080
 gtccaaggaa gccctctgtt gcaaccagat atgttttgaa cccagttcat tcagaaacca 1140
 tgggtggtgg tcatcatcta cttgtattgt gaaaaaccag aaattccaaa ttcagctctt 1200
 caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1253

<210> 1377
 <211> 671
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (287)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

861

<222> (645)

<223> n equals a,t,g, or c

<400> 1377

```

cccacgcgtc cgagaaaggg agaagagtct tgtgggggct gggtaaggga ctcctaaaac 60
aagagtgggc agggacttca cctcttcccg taatggaagc tctgttaa at ttttaattta 120
ggagagtttt tgtgaaaatg actattttgt ttagctcaca tgataacatt tctataataa 180
atcatactca gcggtgcttat gcgcgaagag actgaactga agacgctgca gactcagata 240
gcaaaaataat aagcctactt catgataagg taaactattag tcattcnaac tcctatttcc 300
cttaaatata tcttaaatca gttaagggtt ttaatgtttt ttttaaatta atagtaatgt 360
tatgtttgaa aaactgggtt gaaataaaact ttaaaacctt tagaagttaa accacttaag 420
acttttccag tctgcctcgt tatagcaaaa ccaaggaaaa tttcttttct aagctcctat 480
agagaactgg caatgaaact aaaattta at tgtgtctcca ggtctcttat ttttctgcaa 540
ataataaatt atgtactatg atcattttca gataaatcat catgcatgtt ccaaaatgat 600
tggccaaggt ttatttttaa gaaacattaa tcgtgagtgg maganacatg ctatgggcct 660
tttgggagac a 671

```

<210> 1378

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 1378

```

gttgacattt tcttcacttg aacaaagatg gcagaatccc atttcacatg ttggcaggca 60
tgctatttaa gtgtgctggg gcctctccac agtaggatcc tgctgtgagc cttcccttct 120
catgaggtcc ttcctgggct cccagataaa tgtcatgata aatttggagt tgtagctaaa 180
gggcagccta atagatttct aatatataat aaatagtagc actaggtcaa aatactgctt 240
aggaatcact ttataactcca ggtggcttcc tccattgtcc cctcgccgcc tctgcatttt 300
gatctgaaag ctcgatttca agattacaaa tgagagaaac ctgattctct tctgtgacag 360
gagccaggta ctgcaatggg ttgcaatcca aaacctnata attgtcaagc ctcagttcaa 420
gagactttta ctgggatata ggctggatga ctgaaaccta acaggctgga aaggtaatag 480
ttttggggaa tgcncatgac a 501

```

<210> 1379

<211> 962

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (795)

862

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (892)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (922)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (939)

<223> n equals a,t,g, or c

<400> 1379

```

ggcacaggcg aagaaaggaa aaaagggaact tgtcttctag taattgggta tttgcagact 60
ctgtaagtat atgtactgaa cattaagggt ttatagccct ggggtttgtt cctaaatggg 120
ctacaaggag ttttacacaa aacttttgct taatgctttt ttttgtgtgg agaggacca 180
taatccttat aatactctca aagatggctc aggatcccc aaaatgctaa aaatcacggc 240
ctaaaaaatt cctgctacta catggaattt gcttcatgta gagctcgccc ttacctaagg 300
atacctctgc ctgctgtgta tcttagtgat ggcaagatca aggttatcaa caacaggcag 360
acaccccgca gtagtttctc tcttagagtt gaatgtctgg cttagtaaaa ttctgtccat 420
tgaaagcctt tctttaaaak gtttgctaca aatgaatgca cagcatgaga tattttaa 480
agtatcatat actttaggat caaacaagca aaaaatactc tgatatagta tgtgctacat 540
aagcgttttt gttacgtgct aggcctctca aaatggattt gtagaaaatg acacagaatc 600
acagttcatg ccctagttta cgggtgctctt tttgaccggt gttttggaag agtgatagtt 660
atcctactgt aaatagcttt cctattacaa atagtagtta acatgtcgtg tataaaattt 720
ctggttttcc acaaatatct atgaccacaa atcgagaaac gtaatgagtt gtgaccaata 780
gttaatatat tttcnaaatt taaatgtact accggccaca aataactgcg ttttgggatt 840
attaaactat ccacagtaat ttaaagtgga atcactctct tcatttatag cnaaattctc 900
tagggccaaa ggaacatggg antcaggncg ggaattacng gtccgattta cattattttc 960
cg 962

```

<210> 1380

<211> 2935

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

863

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<400> 1380
ntacaggnac cggnccgga ttccccgggtc gacccacgcg tccggcgaga acccgcgccc 60
gcgaacaaag agcgaaccaa agcgatgctt cgaattttta aaacggaatc tctgcaccca 120
aatgcaggac tgggtgactta aggagctgcg aagtctgatt taccggccta ctctcgacct 180
gccccccacc cccagctcag gggacctttt gtctgaacgc cagagctact gaccaggctc 240
ggggggccgcg gtgggggagtg gaagagccgg tectgctgtc cgccctccca gccccagggtg 300
gaaggctcag ttgtcggaaa gacaaaagcg atttcttccc actcctgcag ggccagaagt 360
tcaggctgcc ccgcctccac tgggggatcg cacctgtgaa ttacctgagg tatgcatttc 420
ccagaaccgt gggcgtaccc accttggggg gcatgttggg tctgggggga ccacctctcc 480
ttgcattcag gggctgtgaa gctgagtaat tttcggtcac agggcaggcc cctgttgaaa 540
tttcatttgt cctgctcttg gcccaaaggt ggtggtggtt tgggtcatca gaggactgcc 600
tgggacgggt cagcggggcac ggagcgtgt gctggcctgg ctggggatgg ccgcgagggt 660
gcccttttcc tgggtgctttg tgggtggctgc agaagaccag ttttgttgag aactgctttt 720
cagcctggaa tcagacatct tccagatggt ttggaccctg tccatgtgta ggtcattatc 780
acacaaagag accaataaaa ataaaaaaaa taaaaaaaaa aaagacgaac tattggagggt 840
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tttgggtgaa atgctggatg ggggtgtgtgt gtgtgtggat atagggacct ccctctgtac 960
tgtgtaatcg gcattaatac ctagactcat atgtatggaa ttttaaattc tcttagccta 1020
ctgattgggt tggatgagca caccagctgc aggtgtgtgc tgaattgcaa gatgggtatt 1080
ttttttttaa ccaagggatg tctcttgtaa tactaacgc gtgataatgg gttttcagac 1140
atgatgaaaa aaaaaaactt ttacaaatga atacttacct tagaaatatt caccttagga 1200
aaaaagactt tgcctgccc ttttatattc ctttatgctg caagtgggtga catgttcaga 1260
tttctaattt ggttcattgt ggcctatctg gtttaagtct ttcattaaaa atgtctcgtt 1320
agagtatttg atgtcatgca ccaaaaaaat aaaacccac cttgttgcaa aagctgacct 1380
cggtgcatgg aattaaaaa gaaggaaaaa cacaaggatg aagtctttcc gaattcattc 1440
ttgtgggaac tggccttcgg agccagccag cactttgggc aaatgcaaac aacaatgagt 1500
gcttgagata aaagaaagtg tgacgtcatg gtcactggta ctcaggcact tcacagtta 1560
cttgaaagag gctttggaaa atagataaag tgaaagaaga ataaatacat atttttaata 1620
atgtaatttt aaaaatcctt tataatcagg actgagtctt ggtttgcaga agctgtcact 1680
taccctgaaa cacagtatca aaagggaac ttaaaacata ctgtttgatt tttttatttc 1740
ctcttacaat ccatgttttc aggtagaatt atgactttcc cccattgtt acacatttct 1800
ttacaaagga ggcctgtaga aattggacac gatcatgctt gagcatgtga gttagtcaaa 1860
ttatgagtcc ctgcctattg tccattacac accgaatgtt aatttaagaa ccagaggcag 1920
aagttctggc ttctgcttg aaaccaatt cttatatgaa atttttttaa agcagaaacc 1980
tagcagccca tctgcttttt ctcttttgtc ggtgtatttg gtacccctcc aatgctgggtc 2040
ttttttaga aactcagtag agaaagtcta gctaagcagt gttgaaaagc ctgcaagatt 2100
tcagtttaca tatcgacagc atatccactg atttctaaat gggctgggtcc catcatctga 2160
agattctgta tagaattatt aaaaaaaaaa tccatctttc tttattttct tcacatgcga 2220
caatttctta agcactttga cattttggta gttccacact attgagagaa taatatattt 2280
attttgtgac attgcagatg ccaaatactg taaccttctc rtgataacaa tacttaggtt 2340
caagatcact gttcaaacc tgtcatgctt taaaactgat gcgagatgat tttgtttttt 2400

864

```
gcataatcaa tacttaaggg tgcaatcaac tgtagtaaat tgtgcagtaa agtaaagccc 2460
tgtggtgtat caactactag ttaagagtct cagttgattt ctgtaatgtt tgacctaata 2520
atagcccggt tcgtctctga cccaacagag gaagcacaga tcaaatacacc ttggagtggg 2580
caccaggggg acagggagcc ccccaaccaat gtatcaatgg gtgatttatg atgccttctg 2640
ccctttggcg agtgaatggg tttcccatag gggaagtgg cctccctccg tgagctttgg 2700
aaatgttttc taatagacac agggaggcca gttctgtttc agagcaatta tcttccaaa 2760
ttctctgttc tgggtgttga actgtgtgcc ctggtttctg ttttccttct tactgctgta 2820
attctctgtc tcatcatcct tctcttttgt ttccatagcc ttttataatg catatatgat 2880
gctgtgaaca gaaataaatt atttatacaa tcaaaaaaaaa aaaaaaaaaa ctcga 2935
```

<210> 1381

<211> 626

<212> DNA

<213> Homo sapiens

<400> 1381

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gtggacgcct gtaatcccag gtactcggga ggctgaggca ggagaatcgc ttgaacctgg 60
gaggcagagg ttgcagtgag ctgagatcat gccattgcac tccagccctg ggcgacagag 120
ggagactttg tctcaataag taaatacata aataaataga ttaattaaaa taaaaaggat 180
ctccaggggt gcattgcttc tggaagctct agggcaagct tttccagcct gcggcatacg 240
gccaggactg ctttgaatgt ggcccgacac aaatttgtaa actcttaaaa cattatatat 300
ttttctttta gttcatctgc tgtcgttagt gttattgtat tttatgtgtg gccaagaca 360
gtcgtcttct tccagtgtgg ctccagggag caaaagatcg gaagccctg ctctagggga 420
gtgagttcat tttattgcca tttccagctt ccaaaggctc tctgcattcc ttagctcgtg 480
gccccatccg tctgtcttca aacctaccag tgtagcatct tccaagcagt cctcaccac 540
taccctgtcw ccccgccct ctcactcccc ttctgtggcc acgatgcctc agggaaagat 600
ggcatttttag gcagcaggta agaacg 626
```

<210> 1382

<211> 583

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<400> 1382

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ctgttttaggt tatagtctat tgatactttt tatatacaat tttataaata taaatattat 60
aattttatat taatggtacc aaaaatacat ttcttaaggt taaaagcatg cacttccatg 120
catacttgct tttggggaga gtggggagaa gacattctaa taatcagttt gtgaaatagc 180
ttctgttggg aaccttttga ggggaataag gaatgggtcat ctaaaatgag agattctgga 240
ttttaatgca gttcaaagtt gagctgtatt tttgttgttg atttatctgg atttttttta 300
aagccttcta aaaccagtg aattcaatac cttaattagt acatactatc ttatgtaatg 360
cataaagcaa tgccagtcac tgagaacatt taaatatatt tatattcctg gagatacaca 420
```

865

ttctcatttt tgttggttta ttataaatta ttcttctaga tgcattcttt ataactagga 480
tttcattttg tgtgtatagc ttatgtaata aatttttaaag gtgaaaactc tcttaaaaaa 540
aaaaaaaaaa aaaggggggg cgcgcccaag nggcccaagn tta 583

<210> 1383

<211> 517

<212> DNA

<213> Homo sapiens

<400> 1383

acatatggaa ctcatcattc attttaaagt atgggtggcca ttggcggtga caaaaggaaa 60
agaagcaaag agactcagtc cataatgctg attagttaga agaaagggtc aggattgaga 120
aagtaccagg aacttttaaat tatttaaaag agaatgctga ctgttaatgt tttaaattctt 180
actgttcaaa tgtastaata tgaattttta ccctttgtgc atgaatatts taaacwacta 240
gaagacctcc acaatttagc agttatgaaa gttaaactkt ttattataaa aattctaaac 300
cttactgctc ctttaccagg aacatgacac actatttagc atcagttgca tacctcgcca 360
atagtataat tcaactgtct tgcccgaaca atcatctcca tctggaagac gtagccttta 420
gaaacacatt tttctattaa tttctctaga acttcttttc ggtataatct gtaagaaatt 480
aaaaatatat atcaacttct ggataaataa aaaaaaa 517

<210> 1384

<211> 1230

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1216)

<223> n equals a,t,g, or c

<400> 1384

gcgccgcggt ctcccgagct cctcgggctc tgggtcccg cgccctccg gccgcgagtc 60
ccacgcgcca ccccgggcg ccctcgacgg tggatctagc ggcggcgagg aggcgggtcc 120
cgcccccggt gaaccccgagt cccggccccc ggccccgggc ccagcttcgg catggatgtg 180
aggttctacc ccgcggcggt cggggaccct gccagcctgg acttcgcgca gtgcctgggg 240
tactacgggt acagcaagtt tggaaataat aataactata tgaatatggc tgaggcgaac 300
aatgcgttct tcgctgccag tgagcagaca ttccacacac caagccttgg ggacgaggaa 360
ttcgaaattc caccaatcac gcctcctcca gagtcagacc ctgccctagg catgccgat 420
gtactgtctac cctttcaagc cctcagcgat ccattgcctt cccagggaag tgaattcaca 480
ccccagtttc cccctcaaag cctggacctc ccttccatta caatctcaag aaatctcgtg 540
gaacaagatg gcgtgcttca tagcagtggt ttgcatatgg atcagagcca cacacaagtg 600

866

```

tcccagtagc ggcaggatcc ctccctgac atgcgggtcca tcgtccacat gaccgatgtg 660
cgcggttctgg ggtcatgcct cctgcccagc tcaccaccat caaccagtct cagctcagcg 720
cccagttggg gttgaatttg ggaggtgcc aatgcctca cacatctcct tcacctccag 780
caagcaaatc agccactccc tccccttcca gctccatcaa tgaagaggat gctgatgaag 840
ccaacagagc cattggagag aaaagagctg ctccagactc tggcaagaag cccaagactc 900
caaagamaaa gmaamagaaa gatcccaatg agccacagaa gccagtgtca gcatatgcc 960
tgtttttcag agacacacag gctgcaatta aagggtcaaaa cccaatgca acctttggag 1020
aggtctcama aattgtagca tctatgtggg acagccttgg agaagaacaa aagcaggtat 1080
ataaaaggaa aacagaagct gccaaaaaag aatacctgaa ggccctggcg gcatacaggg 1140
ccagnctcgt ttctaaggct gctgctgagt cagcagaagc ccagaccatc cgttctgttc 1200
agcagaccct ggngtngacc aatctaacat                                     1230

```

<210> 1385

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<400> 1385

```

aagcaacgaa atattatgat gttctaaatc ctacctaaat attcttactc ttaaagctat 60
ggtcataaaa cccactggct ttcttcaaaa ggtagattac attattagaa agttgttaaag 120
atatattatc accaaactaa aactttgctt ttgctttatt cagaggaatt taaagataat 180
agacaagaaa tttctattta gggctatgtc cctgtaccac actttaagga atgaaacact 240
gtcatatgtc ctgtcagata actgagttaa acatttctact ttgcagttaa caaaacagct 300
agagcctagg tataatgctg tggtagtgtt cttagttttt gctttttccg ttctctcata 360
ataagtgtac ctgagtatgt ct                                     382

```

<210> 1386

<211> 1202

<212> DNA

<213> Homo sapiens

<400> 1386

```

gagaactagt ctcgagtttt tttttttttt ttttttttgc tttacattac ttggtatgta 60
aataccttga ttaaaacctt gtaaaccaat ttcaagggtta ctataagttg tatagtacaa 120
gtgtttttta aaaatcttgg ggtgttttta aaaattaaga tatattttgc ccaagaattt 180
ttttaacaag attgctaaaa acatcttatt tagacacttc aatgtaccaa tttataattg 240
gatattcagt ttaaatagta cacagagttg tggtctttat tttcaattaa ttttttctct 300
tgtgggcagt gtgcatggta taataagcct gagcagaggc ttaagttgta tgtgtgcaga 360
gtttgtaaag gaatcaattg gaagatgcag aagaccgagg tttgctttca aggtattttt 420
caggctgtgt gggtaaaatt tgccctcaaat ttctatcaaa caggaatgta aaatagataa 480
aatcctatgt atttgaattg tcagagctag ggagtgtcaa tgttttggca atgtattcaa 540
aatgctggcc tgggcaccaa agagaaaata gccttttaca gttacatagt aagatgcgat 600
tagtaccac aaattactgt tttctaaaca tttgaagttt tacgattagc tttaaaataa 660
tgattttata aattgggtgt cacaataatt ttggtattac tttctctctt tttccactta 720
gcaatatagc caaatgtatt caacataaaa attcataggg tctgaaattc atagctgggc 780
caaatttttt atggcacctt agtttttacca taatgggtcat ctattacact cttctgttat 840

```

867

```

aaaatataacc cttatttctt ttgtttatag tatctttgag gaatgttttt ggaaaagtta 900
atztatatatt tatagggaga aacttcaata aattatgtta actgtgcccc cgagttaaaa 960
atztatatgag tatatgtgaa acttgaacaa ctgaagactt tttttaattg ataaaaatgc 1020
ttagtatgcc tgttttggtc tgccagtaaa ttaagtagct tattgagata actaacagct 1080
aaatatagct gtagtgtttc ctgactgtat attctatgat ttaataaaat tatccagact 1140
agttatattg ccacagtaaa catgtgactg aagtgtcctt catcttaatc tgaaagaggg 1200
ca 1202

```

<210> 1387

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc. feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (559)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (562)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (571)

<223> n equals a,t,g, or c

<400> 1387

```

gatacctctg tggtatgagt atttcaggga aaaagaaagc aggcattggca cccattcgat 60
tttccttgac agcatctgag atccttttgg ggagacgctg aggagtgttt gctgccatgt 120
actcttacag ctctatgctg aactcccat ttgatgtggt ccagaactta gacctcagtc 180
cttggatcag ccctgtggtc cctgcaagca ggggcattct tctgcatgtg agccagcccc 240
cttctgttcc aagggttctg ctggatctgg gcttttcctg tccttcactt ctgggatgat 300
tcaccccaaca tcttcagta ccctgtaaac cattttaaaa tatttagaaa actatcctcc 360
caaaaatgct tttgaaaatg agagccctct gtccctgcca cttacagcta gtctctttgg 420
gataggggtg tatgtggaga gattcatgta agtctcacat gaggtagctg tgccctatg 480
tgtactaatg tgtgtactgg gtcagaaggt gccctgggtt cccacagacc ttggtttcc 540
gcctgggtgg gtgnaagna anggaactta nagaa 575

```

<210> 1388

<211> 1672

<212> DNA

<213> Homo sapiens

<220>

868

<221> misc feature
 <222> (311)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1652)
 <223> n equals a,t,g, or c

<400> 1388
 atataagcaa cacttcttcg gattgtcggc cctcagagga gagtgagctg ctcacagata 60
 ctaccaccaa catcctttcc ggcaccactt ctactgtcga atcagatata ttgacccaaa 120
 cagatagaga ggtggctctg cacgaaagga gtagctctgt ttccactatt gacactgccc 180
 ggctgattca agcttttggc catgaaagag tatgcttgtc acccagacga attaaattat 240
 atagcagcat caccaaccaa cagaggagat accttgagga agcggrrcaa cacagcaaga 300
 aagtgtgaa ntacaggtca tcccctagtgt acttctgagc acaccagaag gagacacatc 360
 caggtagcaa accatgtgat ttcttctgac tctatttccct cttctgccag tagtttctctg 420
 agtctaaact ctactttttg caacaagcag aatgtacaca tgtaaataaa gggcatacaa 480
 gcaggtaact tggagattgt gaacggtgcc aaaaaacaca ctcgagatgt tgggataact 540
 ttcccaactc caagttccag cgaggctaaa ttggaagaga acagtgatgt gacttcttgg 600
 tcagaagaaa aacgtgaaga gaaaatgctc tttaccgggt atcctgagga cagaaagtta 660
 aaaaagaaca agaagratc ccatgaagga gtttcckggt ttgttcctgt ggaaaatgtg 720
 gagtctagrt caaagaagga aaacgtgcct aacacttgtg gccctggcat ctcttggttt 780
 gaaccaataa ccaagaccag accctggagg gagccactgc gggagcagaa ctgtcagggg 840
 cagcacctgg acggtcgggg ctacctggca ggcccaggca gagaggctgg cagagacctt 900
 ctgaggccat ttgtgagagc aacccttcag gaatcgcttc artttcacag acctgacttc 960
 atctcccgt ctggggagcg gataaagcgc ttgaagttaa tagtccagga gaggaagctg 1020
 cagagcatgt tacagaccga gcgggatgca ctattcaaca ttgacaggga acggcagggc 1080
 caccagaatc gcatgtgccc gctgcccagg agagtcttcc tggctatcca gaagaacaag 1140
 cctatcagca agaaggaaat gattcagagg tccaaacgga tttatgagca gcttccagaa 1200
 gtacagaaaa agagagaaga agagaagaga aaatcagaat ataagtcata ccggtgcga 1260
 gccagctat ataaaaagag agtgaccaat caacttctgg ggagaaaagt tccctgggac 1320
 tgacacaagt ttattttcct cagagccttg gaattctatt ttatgaacct agagaagcag 1380
 aatccttact tttgtgagtc tggttgaata aagcttattc tttgtccatg tgtatttttag 1440
 aaatagtaac ttctaaagag tctggaacaa agtggtgatt aaaattccta atggtttggg 1500
 agcaataact tctgcatagt ggccttgtcc aatggcctgt gtgttacaat gatatgatca 1560
 tttctcaaga ataagtcctt ttttgtatgt gtttttatac ttttagaaaa taaaaacttt 1620
 agattaaaaa aaaaaaaaaa aaaaaagata tntcgggtcg tcaagggaat tg 1672

<210> 1389
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (334)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

869

<222> (404)

<223> n equals a,t,g, or c

<400> 1389

```

ggcccatcct ggggtgaggct ggggctctcc tgggcactgt atgtattctg gatacaggga 60
tactgggctc gctatgtgtg tggarccatc ccttccttgc ccagcccca cctccctctc 120
aaacctctc tggctctttc tgagcttctc ttctgctcc ccagcttgcc cagtgtcag 180
tgccccactt ggctcttttg ctacttcggg tcaggtggaa cctcttgga atgtgaartg 240
ccttacagaa agattgcact tcaagargar argctscagg gaaccatcct aaaccctaaa 300
gcctggaact tactgkgtea ctttactttt gttnacaaagg gtctccttaa tgccctcgaa 360
aaagatcttg ggcctgaact tctatcctga aggccacctc tgncaaccc aactccctca 420
actcttaggt gttatctcaa ttggaaaa 448

```

<210> 1390

<211> 882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<400> 1390

```

gttccttgt aggaaatgac cttcactctg ggtttaactg gaggggcatc acctcccagg 60
gagacagtta cttcctggag gargtggtgt ttctccacc cataggtgcc ctgccccatc 120
ctcatggtgg cagcaaatca gcatgtgctg gggagaccct ggggtagcag cactgacct 180
cacacctgga ggaagctgtg tgaccgattc atgagcttat gcctgaagac agagcaagca 240
ctccccgcac cagcagcatg acgttcactt gtwttgwgtt ttctgatctc ttcaacgcct 300
tgacctgccg ctctcagacc aagctgatat ttgagatcgg ctttctcagg aaccacatgt 360
tctctactc cgtcctgggg tccatcctgg ggcagctggc ggtcatttac atccccccgc 420
tgagagggt cttccagacg gagaacctgg gagcgcttga tttgctgttt ttaactggat 480
tggcctcatc cgtcttcatt ttgtcagagc tctcaaact atgtgaaaaa tactgttgca 540
gcccgaagag agtccagatg caccctgaag atgtgtagt gaccgcactc cgcggcacct 600
tccctaata tctcgatctg gttgtgactg tggcccctgc cgtgtctcct cgtcagggga 660
gacttttagg aggcgcagc cttccatcac cggatcagtt tttcctctta ggaaagctgc 720
aggaacctcg tgggctccag ggacccaggc ccacatccat ccagcgttcc cgtggctgt 780
gggacagaca gggagggggc tgtacagaaa caccacactg tttattaaat cacaatgatt 840
tttattaaaa aaaaaaaaaa aaaaaanaaa aaggggcgcc gc 882

```

<210> 1391

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

<220>

870

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<400> 1391

```
ccaccccagg gtctggtccc tgacgacgcg cagtgagggc cccgccgcta cccagcagt 60
cgctcccaa gttcgcgga cgcagctgac cggctccctc tggactgggt gacatgactg 120
ctcccaagca gtcgtttgta aactgagttt ctgtaaaaca attttatttt tcatatgtga 180
ctgtagcggg gtatgatttg aactttgttt tccgtccccc agcccggtt ctctgtcttc 240
tcctgtacag ccgntccgtt ttcttacctc gtctccgtca ccgaggccct cagccctgaa 300
cacaaggact gggcagtttc cctattgatt cctgaacctg gaacttaaga catcttccga 360
ggggccccc cttgncacac cctttagctg atcgacttac aaatacctgg gattctntcc 420
ccg 423
```

<210> 1392

<211> 856

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (747)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (811)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (843)

<223> n equals a,t,g, or c

<400> 1392

```
cccacgcgtc cgcttttttt aatctatgtt attgtgagct tgtgcaatgc aagtggctct 60
```


871

```

tattataata atgaaatagc tactccattt aattctttac atgtccaatg ccagctttct 120
ctccgtttgc ctgttagccg agaaccctgt gcaactctct cctggatgtc atgggaaata 180
tgacaaagag asaacacttg gtcttggcct caaaggactc gtaatacaga agacccgaga 240
aggatgtacc tgcaggggta tctacagsag aaattttaatm aaatacttgg cacatcgag 300
ttacaaagaa agttttcaac gtggggccatt ggccactgca ggtttctttg tgagaaacat 360
ttgtgtgtnt ttttatccga gggaacaaaa ccctaggaaa ggaagtttca tcactctactc 420
ccatttttcc tccttcttga acaaaacttt tagctcaagg aacactgctt ttgaaggctt 480
gtgtttcatg cagcctgctt ccttagttga tctgttcaca agatcacatc aagtaattty 540
ttccattctg ggaagatggc gaaaacaaac agatactgtc agcagatgtt gatgaaccac 600
ctttccagaa ataaacagtg gcaggggaaca gagaaagcct ggagaatccc catcagtcac 660
cagccggaga agaccttttc ctgggctgga gtccttgctg ggggaacgtc tgttctctgc 720
agcctgaagn agctctgggc caggagncag cactcagcaa gtccctaagac caattaccat 780
cctgggtcca ttttgggttt gtaaagtcac ngaatttttc tctccagggc cttagtgcc 840
gtntgtaaat gtacca 856

```

<210> 1393

<211> 641

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (576)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (606)

<223> n equals a,t,g, or c

<400> 1393

```

gtagtaattg aattattatc agaagtaaat tgacctcaaa aaaagtaatt gggaaaatta 60
agtttatggc actttgtgta ataactgtat tgatgatgaa gagaaggtta gtactgtaat 120
ttgttttgta taagtctagt gcatatttgg attgagtatg tttttaaaaa gccattgaaa 180
accacatttt gtttggtttt agttacagtc tttgactgtc ccaactatga actttattaa 240
ctttattcat acacatagaa atacattaca caagcatcaa acataaacat tcagatcact 300
cacttcatct ttctcctggg cctaaaactg tcagtatatt tgcagttttc tgatatgtgt 360
tgtctgcatt cagaggactg tcaagagtca tagataggca tctgaatgaa gctttgagct 420
tcttaaaatg caagggtggg gaaacacagg ataccaggaa gagaaaggat attgttcata 480
tagttgtggc agtggccttg agaactgtct tggctagaga tagattagga atctgnatta 540
atcctggaca ttgggggttcc tttagtggat cccttnagct ttccctgccc ggctctaccc 600
attagntatc cagcaattta tgggccagtt aggaacctcc a 641

```

<210> 1394

<211> 712

<212> DNA

872

<213> Homo sapiens

<220>

<221> misc feature

<222> (705)

<223> n equals a,t,g, or c

<400> 1394

```

gggtggtggtt catggatggt gataaggaat taaaatgtac cgtgcgactc tctgtttcag 60
tggtgacttt tacctgttta gtataaatat tcctttgctt ccaaccataa atgtgttctt 120
agaaatgggc ctatagttta gtaacctata gtttggtaat aggcttggtt gttttcagat 180
ggattttggt tctgtgagct aaagctatgt tgcattaaag ccttcgtcct cacacattgt 240
tttgacatat ttctagtctt cataaacttt ttaatttag atttttttcc cttcacaagt 300
atacatctgt tttagcaaat agccttatga aggttgtaga tgtattatgt tgggcatgcc 360
tggtgatttc tatatttttt ccaattacat ttaaagcttt atgttttagg aatataagta 420
cattttatgt ctacttttta ttatatatat ttaattgcac aagtactact gtctagaaaa 480
aaatgggatg ttgctaacac agcattgttg gcttgtaggc agtgctgtcc tgtaaataga 540
ttgaaatgta tttttatcag ctggtatata aatttgagga aagaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaanggggg gg 712

```

<210> 1395

<211> 920

<212> DNA

<213> Homo sapiens

<400> 1395

```

aatttttcac ttccagacgg cgatacaggg attccagatg cgcttttacc gttccggtac 60
tgatattcag cgctctgccg atctccttat ttgattcgcc cgccgctaac atgggttaaaa 120
tctcccgtg gcgggcgctt aacgatttga gatctttaat gtccttttcc ggcgctgtcc 180
gccagtctcc aggcaaaaac atcatcccca tcgccgactc atttaccgcc aacgcaaatg 240
tctcgacggt tgaatcacga ggcacaatgg ccagcacatt aaaatggata acttcctgta 300
accaccgttt attgcaatcc gtcgccgtaa ttaacacctt aacctcagga aattgcacca 360
cggttttttg cagcaaccag tagcaaaact caccatcctg atcgccatcg agcataacta 420
aggcttcagg gtaactttcc agcttttgcc ataactcgtc tgcttgactg gccccctgaa 480
tactcactcc tggaatacgc tgctgtaaac tgattttcat tccatgaata aatattgact 540
gcctgtcaaa catgactatt tgcataactg aatctccacc tgaatacgtt aaaaagactt 600
aagtagtgga agggatttac ccgcgagaaa aaataagaat tcgccatttg gcggtggcca 660
ttctacagag atgacgtgta gaaaatagtt accgatataa atagttacag ctaaaccgct 720
gaaattacat gtcgagggca ctatttataa caattttgag gatttcctta tattggtggt 780
tagtacgcat gcaattaaaa atgaaattcc gcgaccacaa gccaaaataa caaacggcaa 840
ggagacaaaa ataagcacia atagccaaca cgtcctctgt tcacttttaa gggaatcgct 900
gaaaaatacg ctctgtttta 920

```

<210> 1396

<211> 1101

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

873

<222> (930)

<223> n equals a,t,g, or c

<400> 1396

```
tgcagccacg cgtccgcccc cgcgtccgca acccctctt taaaatgcaa aatggccctt 60
ccctaaaata acacacaacc acaaccgcag ctggctctgc acgaaggcca tgctgcagct 120
cttttcttcg gaagtcgatt ttcctccgtg gaatttggct gggcttgtgg tagcgtttga 180
gactctgcaa gagcacgtcc acgccaacca gtctctggtc accgactggc tcgcaaattc 240
cccatttaag gaaaccagca ggcctctgtt atgaaactcg gggaaggaat gtgaattatg 300
ctccatgcgg aggctcctgc tcctgcacgt tttccagcct tttccatggg ccacggtgga 360
gcatttgggg aaggcctgtg tggattcccc cccaagtcca gactgatgcc cctgatacct 420
tctcaggagg tggcggaggg tctgggctct gtccaggctc ctagggggtg ggacgtgcag 480
gtaaagcaag gcgtctgccg cagacgcggg agccttcctt gggctggctg ccagcacctt 540
ggagtcccag gctgccagga aaagttcacc cacaccggg ctttgctggc gaagggtgag 600
tcatatgatg gccgggctcg ggcctcagc agacaccaag tgtgttccca gagcagccgc 660
tcagcgcctg taacctggaa caggccagcy tttcggggsc tcagtcttct catctgccta 720
atgggaatag caattccac cttccctgtg ttggttgggt tctcactaga tgcacaggag 780
acagcagctt kagagggact gtttggarar ctgttccatg tgacaccctt cttaccctgt 840
ccccacgggg ccggaggagc aggggcttgg tgatagcagc tgggcgcagt cagcctctgc 900
agggaagagg gcatgtttgg ttcgaggctn ytatgccctc attcttgttg atcttgtcac 960
agccccctctg gaagggtggag atggtactcg ctcaggaacg ataccactca aggaagcatg 1020
gccccctgga tgggggtggc cttggtgcac ctgaggctcc tgaggctgca gagcaccatg 1080
gtgggggagg aggcggctgt g                                     1101
```

<210> 1397

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 1397

```
ttaggcagaa tgatcacctc cgttgtttca ggtactctgt gtttatttat gcaacagttc 60
atgtaaaatg gagacgaggc cagargawtc cttgagcagm cagagccagt tgggcctcct 120
aagtgcacct aaccttgctt gatttgcaag catgtctgaa actttatttg tggattttct 180
tgtaaatgcc tatgttaaag aaacacagaa cttaagctca accaatcaga agcagccaac 240
aaaaacgtaa ttagtaacta ggacttcctc atgggataga ccaaataagg caactgtata 300
actgtgtaac tgtataactg taaccaatga aatattatct ttgcttttat ctatttgtcc 360
taaaaagcct cctcctcatg ttctctctgg ggagctccct akccacttct ggmtcactgc 420
tcaaataaac tcytaaata tttaaaan                                     448
```

<210> 1398

<211> 763

<212> DNA

<213> Homo sapiens

<400> 1398

```
agatttacct tgagcacttt ccaaattgat actttcaaac ttattttaaa gcagtagaac 60
```

874

```

cttttctatg aaytaawtca catgcaaaac tccaacctgt agtatacata aaatggactt 120
acttattcct ctcacyttct ccagtgcccta ggaatattct tctctgagcc ctaggattga 180
ttctatcaca cagagcaaca ttaatctaaa tgggttagct ccctcttttt tctctaaaaa 240
caatcagcta ataaaaaaaa aatttgaggg cctaaattat ttcaatgggt gtttgaaata 300
ttcagttcag tttgtacctg ttagcagtct ttcagtttgg gggagaatta aatactgtgc 360
taagctgggtg cttggatata tattacagca tcttggtgtt tatttgacaa acagaatttt 420
ggtgccataa ttttttgaga attagagaag attgtgatgc atatataata acactatttt 480
taaaaaatat cttaaataatgt ctcacatatt tatataatcc tcaaataatac tgtaccattt 540
tagatatttt ttaaacagat taatttggag aagttttatt cattacctaa ttctgtggca 600
aaaatgggtgc ctctgatgtt gtgatatagt attgtcagtg tgtacatata taaaacctgt 660
gtaaacctct gtccttatga accataacaa atgtagcttt ttaaagtcca ttgtattgtt 720
ttttctttca ataaaagagt ataattaatt gtgttggttt tga 763

```

```

<210> 1399
<211> 319
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

```

```

<400> 1399
cgttgccagt gtatgacaaa agtaggagtt agtaaactaa tatattttgt acattttggt 60
ttacaagtcc taggaaagat tgtcttctga aaatttgatg tcttctgggt tgatggagat 120
gggaagggtt ctaggccaga atgttcacat ttggaagact ctttcaaatt ataactgttg 180
ttacatgttt gcagtttatt caagactgct gtatacatag tagacaaatt aactccttac 240
ttgaaacatc tagtctatct agatgttttag aagngcccga tgtatgttaa aatgnataag 300
gtattaaata cccctttgg 319

```

```

<210> 1400
<211> 1575
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1450)
<223> n equals a,t,g, or c

```

```

<400> 1400
gcaagttcag attcgtattt tggatgtcaa tgacaatata cctgtagtag aaaataaagt 60
gcttgaaggg atggttgaag aaaatcaagt caatgtagaa gttacgcgca taaaagtgtt 120
cgatgcagat gaaatagggt ctgataattg gctggcaaat ttacatttg catcaggaaa 180
tgaaggaggt tatttccaca tagaaacaga tgctcaaact aacgaaggaa ttgtgacct 240

```

875

```

tattaaggaa gtagattatg aagaaatgaa gaatcttgac ttcagtgtta ttgtcgctaa 300
taaagcagct tttcacaagt cgattaggag taaatacaag cctacaccca ttcccatcaa 360
gggtcaaagtg aaaaatgtga aagaaggcat tcatttttaa agcagcgta tctcaattta 420
tgtagcgag agcatggata gatcaagcaa aggccaaata attggaaatt ttcaagcttt 480
tgatgaggac actggactac cagcccatgc aagatatgta aaattagaag atagagataa 540
ttggatctct gtggattctg tcacatctga aattaaactt gcaaaactty ctgattttga 600
atctagawat gttcaaaatg gsacatacac tgtaaagatt gtggccatat cagaagatta 660
tcctagaaaa accatcactg gcacagtcct tatcaatgtt gaagacatca acgacaactg 720
tcccacactg atagagcctg tgcagacaat ctgtcacgat gcagagtatg tgaatgttac 780
tgcagaggac ctggatggac acccaaacag tggccctttc agtttctccg tcattgacaa 840
accacctggc atggcagaaa aatggaaaat agcacgccaa gaaagtacca gtgtgctgct 900
gcaacaaaagt gagaaaaagc ttggggagaag tgaaattcag ttcttgattt cagacaatca 960
gggttttagt tgtcctgaaa agcaggtcct tacactcaca gtttgtgagt gtctgcatgg 1020
cagcggctgc aggggaagcac agcatgactc ctatgtgggc ctgggacccg cagcaattgc 1080
gctcatgatt ttggcctttc tgctcctgct attggtacca cttttactgc tgatgtgcca 1140
ttgcggaag ggcgccaaag gctttacccc catacctggc accatagaga tgctgcatcc 1200
ttggaataat gaaggagcac cacctgaaga caagggtggtg ccatcatttc tgccagtgga 1260
tcaagggggc agtctagtag gaagaaatgg agtaggaggt atggccaagg aagccacgat 1320
gaaaggaagt agctctgctt ccattgtcaa agggcaacat gagatgtccg agatggatgg 1380
aaggtgggaa gaacacagaa gcctgctttc tggtagagct acccagttta cagggggccac 1440
aggcgctatn catgaccact gaaaccacgr agaccgcaag gcscacaggg gcttcagag 1500
acatgggccg gagcttcagg cagctgctgt ttgcactgaa cgaggaattc ttaaaaaatt 1560
tatttcactg gtttaa 1575

```

<210> 1401

<211> 1313

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1268)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

876

<222> (1295)

<223> n equals a,t,g, or c

<400> 1401

```

caacacccca tctctctctc tctaaaaaaa gagaactggc cgtgagctat tgtgcccagc 60
tgggatcttg acaaagacac tatttctctc ctttcacctg tgctgtgtat tttccctcg 120
cctagtcccc agacctcact gctatatgtc ttctccctgg caggcaggat gacgcaaac 180
acggtgattg tgaatggagt tgctatggcc tctaggccat cccagccac ccacgtcaac 240
gtccacatcc accaggagtc agctttgaca caactgctga aagctggagg ttctctgaag 300
aagtttcttt ttcacctggg ggacactgtg ccttccacag ccaggattgg ttatgagcag 360
ctggctctag gggtgactca gatattgctg ggggttggtga gttgtgttct tggagtgtgt 420
ctcagcttgg ggccctggac tgtgctgmgt gcctcaggct gtgccttctg ggcggggtct 480
gtggtgatcg cagcaggagc tggggccatt gtccatgaga agcaccggg caaacttgct 540
ggctatatat ccagcctgct caccctgrca ggctttgcta cagctatggc tgctgttctc 600
ctctgctgta atagcttcat ctggcaaaact gaacctttt tatacatcga cactgtgtgt 660
gatcgctcag accctgtctt ccctaccact gggtagagat ggatgcggcg aagtcaagag 720
aaccaatggc agaaggagga gtgtagagct tacatgcaga tgctgaggaa gttgttcaca 780
gcaatccgtg ccctgttctt ggctgtctgt gtcttgaagg tcattgtgtc cttgggttcc 840
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tcagagaaga ggctactggg ggagaattca gtgccccctt cgccctctag ggagcagacc 960
tccactgcca ttgtcctgtg agcygccaaa gacccacgg ggtgcccga tgccctgtc 1020
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ccagaccctc ctcccttctt ctccccacat ccgcacctgc tgttcccact ctgggggttct 1140
caagtccatg aacagatatt gttgcatttt ccacaatgct gattaaacat aataaacaat 1200
ccagaaaagc aaaaaaaaaa aaaaaaargg cggccgctct aaaaggatnc ctcgaagggg 1260
cccaagcntt aagcgttgca tngnaagtca naagnctttt ccctaatagt gaa 1313

```

<210> 1402

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<400> 1402

```

cactaaggga acaaaagctg gngctccacc gcggtggcgg ccgctctaga actagtggat 60
cccccgggct gcaggaattc ggcacgagtg aacccttgct tgatacgcac atagtgaatg 120
gagaaaagaga tgaaactgcc acagctcctg catcaccac aacagayagc tgtgatggaa 180
atgcttctga cagtagctac aggactccag gcataggccc agtggctccc cctagaagaa 240
agaggggagc aaacagaaac caaggtacaa gagagggaaa atggggaaag ccctctggaa 300
ctggagcagc tggaccagca ccatgagatg aaggagacta atgagcaaaa acttcacaaa 360
atagccaatg aacttttgct tactgaaaga gcttatgtca accgacttga cctcttagat 420
caggtatttt attgcaaact gttggaagaa gcaaaccgag gctcgtttnc agcagagatg 480

```

877

gtgataaaat ctttttctaatt atttcatcaa taaatgcttc catagtaaatt

530

<210> 1403

<211> 1410

<212> DNA

<213> Homo sapiens

<400> 1403

```
gaaaatgtat ataataggca aggaaagaaa tacagtactg tttctggacc cttataaaat 60
cctgtgcaat agacacatac atgtcacatt tagctgtgct cagaagggct atcatcacc 120
tacaactcac attagagAAC atcctggcctt ttgagcactt ttcaaacaat caagttgact 180
cacgtggggtc ctgaggcctg cagcacgtcg gatgctaccc cactatgaca gaggattgtg 240
gtcacaactt gatggctgcg aagacctacc ctccgttttt ctactagata ggaggatggg 300
agaagtttgg ctgctgtcat aacatccaga gctttgtcgt atttggcaca cagcagaggc 360
ccagatatta gaaaggctct attccaataa actatgagga ctgccttatg gatgatttaa 420
gtgtctcact aaagcatgaa atgtgaattt ttattgttgt acatacgatt taaggatttt 480
aaagtattttt cttctctgtg agaaggttta ttgttaatac aaggtataat aaaattatcg 540
caacccctct ccttccagta taaccagctg aagttgcaga tgtagatat ttttcataaa 600
caagttcgag tcaaagttga aaattcatag taagattgat atctataaaa tagatataaa 660
tttttaagag aaagaattta gtattatcaa agggataaag aaaaaaatac tatttaagat 720
gtgaaaatta cagtccaaaa tactgttctt tccaggctat gtataaaata catagtgaaa 780
attgtttagt gatattacat ttatttatcc agaaaactgt gatttcagga gaacctaaca 840
tgctggtgaa tattttcaac tttttccctc actaattggg acttttaaaa acataacata 900
aattttttga agtctttaat aaataaccca taattgaagt gtataatata aaaaatttta 960
aaaatctaag cagcttattg tttctctgaa agtgtgtgta gttttacttt cctaaggaat 1020
taccaagaat atccttttaa atttaaaagg atggcaagtt gcatcagaaa gctttatttt 1080
gagatgtaaa aagattccca aacgtgggta cattagccat tcatgtatgt cagaagtgca 1140
gaattggggc acttaatggg caccttgtaa cagttttgtg taactcccag tgatgctgta 1200
cacatatatt aagggtcttt ctcaaagaaa tattaagcat gttttgttgc tcagtgtttt 1260
tgtgaattgc ttggttgtaa ttaaattctg agcctgatat tgatatgggt ttaagaagca 1320
gttgtaccaaa gtgaaattat tttggagatt ataataaata tatacattca aaaaaaaaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1410
```

<210> 1404

<211> 1442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1419)

<223> n equals a,t,g, or c

<400> 1404

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cttctatatt agatggacag atttatatac ttttccatgg aggattaagt aaactgaaac 60
ctaagacaca cgaagaaatt ctaagtggaa aggccactta ttagttagtt tacagcagta 120
```

878

```

tcgtaagtga caggatgata ggagtgtggt aagtgatcag gataataatc tgcttagtaa 180
gagaaacaat ttgaatttta gaaggaaatt gccttaccat ttgcaaatta aggtaatata 240
aatacagtga atttcaaaat gcctttttta tgacaatgtg tgaacttaat ttgttttaata 300
aaacccaaat tgttggttatt gtgttaaggc tattttacat tgaatgtgta tcttgccact 360
gatgttaact tatcccatct tacccaaggc tgtaggtaac aatatactat tgggtgacag 420
tggaactaaca tctctagtga tccctttgtc agtgggtctt aacttaaaat aatttagaga 480
atatggtttc tacaacttac atttttgttt wcttgtaact acagattatt atgatgggtg 540
taatgaagat tatgagtata attggagcta tatgtttctg aattctgaac aactatttat 600
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cagaccttta gttttgggtt acatggattt aaatatatag atatatcact gtaaaataaa 720
cttcaggtgt aacagattta tagagaaagt aatcataatt gtttatgggt gtgtacctac 780
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tcattttact ttataaaatt gacataattg agtttattaa atttattggg ccaatttaag 1260
taaacagttg aacgtttcat aagtcatgag gtctttttgg gcatatacat gaagtaaaca 1320
aagacaatac taggctatgt aataggragg ctaccttaat taggaggtaa atattcnttt 1380
tggaatttgg gcccggtggc ctcgggtgga aaatggggna atatccctag gtaaaaaaat 1440
gg 1442

```

<210> 1405

<211> 1689

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1680)

<223> n equals a,t,g, or c

<400> 1405

agctccaccg cgggtgacgnc cgctctagaa ctagtggatc ccccgggctg caggaattcg 60

879

```

gcacgaggtt acattcagta tggtaatgaa gaacagagaa aacaggcttt tgaagaattg 120
cgagatgatt tggttgagtt aagtaaagcc aaatattcga gaaatattgt taagaaattt 180
ctcatgtatg gaagtaaacc acagattgca gagataatca gaagttttta aggccacgtg 240
aggaagatgc tgcggcatgc ggaagcatca gccatcgtgg agtacgcata caatgacaaa 300
gccattttgg agcagaggaa catgctgacg gaagagctct atgggaacac atttcagctt 360
tacaagtcag cagatcaccg aactctggac aaagtgttag aggtacagcc agaaaaatta 420
gaacttatta tggatgaaat gaaacagatt ctaactccaa tggcccaaaa ggaagctgtg 480
attaagcact cattggtgca taaagtattc ttggactttt ttacctatgc accccccaaa 540
ctcagatcag aaatgattga agccatccgc gaagcgggtg tctacctggc acacacacac 600
gatggcgcca gagtggccat gcactgcctg tggcatggca cgcccaagga caggaaagtg 660
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gagcatgttg gtatgaagaa cctgaagtcc tgggctagtg taaatcgagg tgccattatt 1320
ctttctagcc tcctccagag ttgtgacctg gaagttgcaa acaaagtcaa agctgcactg 1380
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ttctctgttc tgtttcccaa tgcagaaaag aaggggtagg gtccaccata ctggttaattg 1560
gggtactctg tatatgtgtt tcttctttgt atacgaatct atttatataa attgtttttt 1620
taaattggtmt ttttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg ncccccaan 1680
gggccccaa 1689

```

<210> 1406

<211> 708

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (675)

<223> n equals a,t,g, or c

<400> 1406

```

ggttttggat gttgctgccg gcatgattaa accagggtgta actactgaag aaatagatca 60
cgctgtacac ttagcatgta ttgcaagaaa ttgctaccct tctcccctga attattataa 120
tttcccaaag tcttgttgta cctcagtga tgaagtcatt tgccatggaa taccagacag 180
aaggccctta caagaaggtg acattgttaa tgtggatata actctttatc gcaatgggta 240
tcatggggac ctgaatgaga catttttttgk tggagaagtg gatgatggag cacggaaact 300
tgttcagacc acatatgagt gcctgatgca agccattgat gcagtgaagc ctggtgttcg 360
gtacagagaa ttgggaaaca ttatccagaa gcatgcccaa gcaaattgggt tttttagttgt 420
tcgaagctat tgtgggcatg ggaatccaca agctttttca tacagctccc aatgtacccc 480
actatgctta aaaataaagc agttgggagt gatggaagtc gggccatgta tttacaattg 540
gagccaatgg tttgtggaag gcggatggca ggatggaaac ctggggccaga tgggtgggac 600
tgcggtggac aagagacggg aaagcgggtc gcttcaattt tgagccacca acccttcctg 660

```

880

gttcaacagg acaantggtt gtggaaaatc cttaaccccg gcggcttt

708

<210> 1407

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (753)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (810)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<400> 1407

```

accacgcgt ccgctcatat caccaatcct gagcaaacc ttcttggaac taatttgaca 60
ggattttctt caccggttga caatcatatg aggaatctaa caagccaaga cctamtgtat 120
gaccttgaca taaatatatt tgatgagata aacttaatgt cattggccac agaagacaac 180
tttgatccaa tcgatgtttc tcagcttttt gatgaaccag attctgattc tggcctttct 240
ttagattcaa gtcacaataa tacctctgtc atcaagtcta attcctctca ctctgtgtgt 300
gatgaagggt ctatagggtt ttgcactgac catgaatcta gttcccatca tgacttagaa 360
ggtgctgtag gtggctacta cccagaacc agtaagcttt gtcacttgga tcaaagtgat 420
tctgatttcc atggagatct tacatttcaa cagctatttc ataaccacac ttaccactta 480
cagccaactg caccagaatc tacttctgaa ccttttccgt ggcttgggaa gtcacagaag 540
ataaggagta gataccttga agacacagat agaaacttga gccgtgatga acagcgtgct 600
aaagctttgc atatcccttt ttctgtagat gaaattgtcg gcatgcctgt tgattctttc 660
aatagcatgt taagtagata ttatctgaca gacctacaag tctcacttat ccgtgacatc 720
agacgaagag ggaaaaataa agttgctgcg canaactgtc gtaaacsma attggacata 780
attttgaatt tagaagatga tggtatggtt acntggccag ccaagaaggg naaccctt 838

```

<210> 1408

<211> 932

<212> DNA

<213> Homo sapiens

<400> 1408

```

gaagaatctt actgaaaatc aagaagctct tgcaaaagaa atgcgagcag atgcagatgc 60
ctatagacga aaagtggatc ttgaagaaca catgtttcat aagctgatag aagcaggtga 120

```

881

```

aaccagagc cagaaaactc agaaggtgat taaagaaaat ttggcaaagg ctgaacaagc 180
atgcctaaat accgactggc agattcagtc tttacataaa caaaaatgtg atgatctaca 240
acgaaacaaa tgttaccagg aagtagccaa actccttagg gaaaacagaa ggaaagaaat 300
agagataata aatgcaatgg tggaggagga agccaagaag tggaaggaag ctgaaggaaa 360
agagttccgt ttgagatcag caaagaaagc ttctgctctt tcagatgcgt ctagaaagtg 420
gttttttaaag caagagataa atgcggctgt agaacatgct gaaaatccat gtcataaaga 480
agaaccagg ttccaaaatg aacaggactc aagctgtttg cctagaacct cacaattaaa 540
tgactcttct gaaatggatc cctcaacaca gatttcttta aatagaagag cagtagaatg 600
ggacaccacg ggacagaatc ttattaagaa agtgagaaat cttcgccaga gactcactgc 660
ccgggctcgt cacagatgtc aaaccctca tcttttggct gcatagaatg catgtcacct 720
tgagacggtc gagagagaga cctattttgc aatcagtgc attgattttt agattattta 780
tttaaaattc ctataaagat cagccctttg tacagaaaaa tgtgtctata aaaattatgt 840
gttattttaat tctgatactt tttggcttgt aaatggcttc ttgaactttt tacaataaaa 900
atgttttaga aactgttaaa aaaaaaaaaa aa 932

```

<210> 1409

<211> 765

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (751)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (760)

<223> n equals a,t,g, or c

<400> 1409

```

caaaatcagt gctgtgcccg gcgtcaggcg tggagacaac agaaagttgt gcttaaagct 60
cgaatcagaa atccccggcg agtgtctctg tgtcctccct gcttctctgc tctgtgccat 120
ccttactttg caccattcct attgcaatta cctcaaccag ttcgctgccc tcggtctctc 180
accagccaga gtgatcattt aaaatgccaa tcagttcctg tgggccttgg gaatmatyca 240
gaggagcccc attggctgag agataaaaatt ctgtttttac ctgggcacgc gggctctcca 300
ggatttgatt ccagcttacc tttccagtc tgaattcccta tattccagta tttggaaatg 360
tgggccttgg actgaggett taccaaataa cgctgarcac ctagtattgc cttttgcacg 420
aatggtactg atggtgcccc agataactgc ctccamcccc aagttcagga cccagatcac 480
tctctggaga aggctcagc ctcttgccctk ggctttcaag gctctgcgtg atttggtatc 540
tcgcttagct cttatttata tatattttta aagcatcagc agtttatctc atgcccacta 600

```

882

```

aactatcctg cctccgtacc ctttggtcat actttctgct ctgtgtggaa tgcccttctt 660
tcttccccctg ntctttctct tagacccaag ggttctcaag ccttatttct gcctctccca 720
tctcaaaaaa taaaataaat aaataaacnt nataaaaaan tcaaa 765

```

<210> 1410

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<400> 1410

```

agtgagctga gatcatgccg ttgcactgca gcctgggnga cgagcgaaac tctgtctcaa 60
aaaacaaaaa aaacaaaaaa gcaaaaaaac cccacaatcc agtgagtaag acctcagccg 120
gcctgagggtt cacagggttt aaatggaatg cagtgggaag taaagagtga tcccaaggag 180
aagtaaaaaat cttgacacct tactctcttc ggcttgtccc acttttcttc aactgccccg 240
ctactggaac attttctctt tctcaatttc gattgtcccc ttaagcaatt tactaattag 300
acattaaaaac ttctatttct ctcaatccca aagcaaaact gatgagcaga gcaaaccaga 360
gcagttgggg ccagaacaga acaaagacgt acctgatgca ggggaattgaa gccagacca 420
aaacggggca acccaatagg atggggccatc tgccccatt aatgccagct tgtccaagtg 480
taattattaa cagtgtcccc tttcactctc caaagagtcc tgtccagaca gt 532

```

<210> 1411

<211> 552

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<400> 1411

883

```

nattatccct cactaaaggg aacaaaagcn gngctccac cgcggtggcg gccgctctag 60
aactagtgga tcccccgggc tgcaggaatt cggcacgagc aagtaattta tatttctatc 120
tggtgtgtat ataatcgctt ctttagagtt ccagacagct gctagtgtcc aaatatgttt 180
ttctaagaa atattttgtt tgtgagtacc aacagtcctt gtaactctct tatccctctt 240
atgtgctgag tacagtcgga ggaagaggaa ttggagttgg tgagtgtggg tttctgcttg 300
aaggaagttg aaaaagatgt agaaagtact aattctctta cgtgttggtt tctaaccaat 360
gtnccttttg ttacacaaat ttttttaaac actattcaaa cactttgaat aaagcaatct 420
actggtagta cagactctag ttttcctatt tataattgta tgtgttgacc cattttattt 480
gttggaggga acattggaat agagccttta aaaacagtag ctgtccatga gcataggata 540
cttgtaatt tt 552

```

<210> 1412

<211> 1100

<212> DNA

<213> Homo sapiens

<400> 1412

```

ggctaaattc tactcttgaa gggctcgtagt ccacagcacc aaaatgactt aagtcctata 60
aaaaaaaaa aaaaaagtta attctctgca ctgaagaaag tccataacct gctcattttg 120
ggcaattctt tctcagtttt atctttttct ttggctaaat ccttaatcat ctgcttcagc 180
tgtttctgat aatcaactgc atcaccttga aacaaaggaa aacaatatgt ggtttaattt 240
aaataaattc agtgacagca aaaaggaaac tatgtaggag agaggagcaa gggggtgagg 300
aattccacta agcaaattcc atacaaaact ggaaagcaag agattcccct ggagagccag 360
tgggtggtaa ctggggggact tctgctctaa gaggaccctg gaaacagcaa acaggaggaa 420
ggaacttggt ggtgggggca aggggcagcc acccagcaac acccccacta ggagcacttc 480
tgtcctctaa aggcagttag tttggggata attcattgga cgaagggaaa agacaaggct 540
gctacaagaa gagggatgag ggcaaccctg gtgcctcccg ccactgcagt ggtatgcagg 600
ggaaagcaac aatgaaaaga ggtacgtgcc attgggtttc ccgaaaacca ggggtctcga 660
tggtgacaac agaggattcc tcaacggcga ctggctgtct cggctatttt cagtgagtgc 720
ttaaaaaaag atgagagggt taaattaaac aaattttctg ccttaccaaa actgacagta 780
atgtagcttt ctaggcaact aaaggctaag ccagcagctc ccagcctgtg gactgtagtt 840
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aaatgtcccc cacaccaagt gtgccttttc ccagagggtat gtggagactg ttgtaattaa 960
caacatacac attcatagaa ggacactgct aatactgatt tggaaaaaat gtatgtagtg 1020
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<210> 1413

<211> 563

<212> DNA

<213> Homo sapiens

<400> 1413

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tgtattttta aatctatttg ctttgattac cacagacagt gattgaggta gatgggcact 180
atctggctgc ttatatgaag gttttgaaac cattctgtta atccttttaa caaatgggta 240
tctgtccttt tctatcttat aataaaagat tgaagatatg acttagtatg ctcatgttac 300
tgtttgctta gagatgggag gctattttta tttttcatgc tgttctaaat catgaaagaa 360
taggtaactt tgtactcatt tcttaattta aatttaagaa gcactttagt attttttgta 420
ttggtatttc agatccctat tgagtttttt aactgaagtc ggagcaaatg aattgagcat 480

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884

tctgagtact tggctaataca agtgatgaag aggtagtaat atgaattctg ggacctaggc 540
 atagatgacc tgattctgtt ctc 563

<210> 1414
 <211> 583
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<400> 1414
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 ttgttagggg aatacatata gtcaggatag gataagaggg gaagtaatga gtgggtttact 180
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 aatgggttgg tctaggtctg gggcaggaaa tatatgrgat aagctgaaac atcttgacta 480
 tcagcaaaga ttttatcaaa cgatgctagg gttgtgtcag aaggactcag cagccaactg 540
 aagacgttcc cactggccaa aatagggcac attgagtatc tgt 583

<210> 1415
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 1415
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 aggtgtgagg aggaggtcag aaaaattggt ggaaatagga aagagaaaga aatatggccc 180
 cgatttttgg gagagaaaagt ctggggaaaag agcaaaggca attaaagagg attttgagga 240
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 gtgtgttatt ttttctaaga ggtgcctcaa gatggataat ggaagatttg gagtacgatt 360
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<210> 1416
 <211> 513

885

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (498)
<223> n equals a,t,g, or c

<400> 1416
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ctgcttctgt agttgtaaaa tgagagttat agcagcacct accacctaag attttgaggt 180
ttgaatgaga aaatgcatgt aaagctttgg gcattgtgca tgatgtaaac actcaaagt 240
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tcaaaatgat acacagtatt ttattttaatg gctttatgta aattatattt tactagctat 360
taataaatta actcttgga cttttgccat ggtttaattt gaaaaattga aaataaatgg 420
aaaaatcata aaaantccat ctattttggg atttacacat aataaccact atntgggttc 480
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<210> 1417
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<400> 1417
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ttttattatt ttaactcttc tccttaggac acgcagcccc caatttkctc ctccggcctg 180
ggcggccctt ggtcccgcgc gccacatggg agagcgaggg acctgcccgc ggcccgcggg 240
cgtgtgcaag gaggtccagc cgccgcgccc gctaccggga gtctgaggac ggggtgtccag 300
ggacggagag gcaggtgaga gggaggtggc taagctggst atggtgacag gacgatgttg 360

886

gccagaaaga gtatcatccc ggaggagtat gtgctggcgc gcatcgccgc agagaacctg 420
cgcaagcgcg catccgagac cg 442

<210> 1418

<211> 929

<212> DNA

<213> Homo sapiens

<400> 1418

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tagtttttag tctgtgtagt taatttaatt tgcagtttgt gcggcagatt gctctgcaa 180
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ctaaaaaaaa aaaaaaaaaa aataacgtt 929

<210> 1419

<211> 244

<212> DNA

<213> Homo sapiens

<400> 1419

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cacccttggt gcggaagaat tgcaccagct cggctattca ctggcgtggt gtcgcgaata 180
gttaatgaaa gtagccggat gggattacct gatgaattca ctytacaacg sgaattcgag 240
cgcg 244

<210> 1420

<211> 172

<212> DNA

<213> Homo sapiens

<400> 1420

cagcaattcg gcagggacgg gtcgccggct gcttacgtgg gcgggcctag tgtggggctg 60
aggggtgcggg tcgctatggc ggtggacatc acgctgctat tccgggccag cgtcaagacc 120
gtgaagacrc ggaacaagcg ctgggagtgg cgggtggcga cggggtcgat gg 172

<210> 1421

<211> 2293

<212> DNA

887

<213> Homo sapiens

<400> 1421

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aatcaacaag tgaatgatgc ttcaaataat acattttaaat acattaatca aatttttttca 180
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gatatgcttt ttacattcta agaatacaaaa tggtcctgta attcccaata gagaaaatag 600
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<210> 1422

<211> 1660

<212> DNA

<213> Homo sapiens

<400> 1422

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gggttgccgg cccggcgccg cccctcccgg ctccctggctc ccctcgctg gtgccccgcg 120
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888

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cctggccggg aggcggcggg tctcgatcgc gcgggcctcc ctggaggggc gcgggctctg 180
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ataaaatcga gaccacagcc tscaaggag cgcgctcca tcctgtttgc ccctcgggtc 360
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<210> 1423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<400> 1423

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ggcagagttg acaccagca gtaagctaac agtggacaca gatactctga ctccttckag 60
caccctttgt gaaaacagtg tctcagaact actgacacca gccaaagcgg agtgnagcng 120
acatcctaac tctgacttct ttggrcagga gggagaaacc cagtttggat tccccaatgc 180
agcaggaaac catggttctc agaaagaaaag aaatcttatc actgtgactg gcagctcatt 240
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<210> 1424

889

<211> 3106

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3075)

<223> n equals a,t,g, or c

<400> 1424

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890

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<210> 1425

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<400> 1425

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gaaatgggtg acgctcatga actgtgtatg tgggttttgt annatctgtc tgtcttgggc 300
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<210> 1426

891

<211> 1967

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1956)

<223> n equals a,t,g, or c

<400> 1426

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tctgcacctc catccttgat ctgtttagca atgctgtttt tgctgttagt cgggttagag 1860
ttggctctac gcgaggtttg ttaataaaag tttgttaaaa gttaaaaaaa aaaaaaaa 1920
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaancccc gggggggg 1967
```

<210> 1427

<211> 879

<212> DNA

<213> Homo sapiens

<400> 1427

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attccccacc cgagcacctc cacaccggtt cctcctcca tataatcttc tagagatctt 60
```

892

```

aaccagtttc tatcccttac ctgcttttct cttctcttct cctgctccgt tcctcatcca 120
cccccccca tctggaccat aatagacacc aaaacaaacc caaattggta aaaagaataa 180
tcaaaaagaa gacattatcc ggtaagagt ctgtgctggg tgccacccaa gagagaacag 240
ttgtccagga tgctggctgg tggaacaacc tgctggcccg aaacaaggct gccagggtgtg 300
gatacctgag aaggactact tggatatcaa tacttttgag atggctacag tcagctagct 360
ggacagccca tgctgactgg ggacatacac ttgcatcttt gttgaaagca gaagaagaca 420
gaccctttcc ccaccttcct tacctcctct tccccatta aggagctca tccaagcttg 480
tatttaactg aataaatgag tagacattgt ggacctcaca agattattta attcttaaga 540
tgtgtagacc ttgatggtag gtgtgacatg ttagtttttc ttacttgcac ttatttaaga 600
cactgttaca gagatactgt tgtcaccttc tggggcacgg tctttgggga ggggggagtg 660
catttagact tatgtggaac tgtacaaatt gtgatgtggc tacatagaaa gccatgtgct 720
aagaataaac tccatttaaa aaacattaaa aatctaagat tcatgtgttt tctaagcttt 780
tcattaagaa aacaaaagtc ctctggattg agatacttga ccttgcacgt aaaaaccttg 840
tagatagctt gagctggatt cacttggatt ctgacggct 879

```

<210> 1428

<211> 521

<212> DNA

<213> Homo sapiens

<400> 1428

```

ctgcgtccat ggccaccgct gcgactgagg agcccttccc ttttcacggc ctccctgccga 60
agaaggagac cggagccgcc tccttcctct gccgctaccc ggagtatgat gggcgggggg 120
tgctcatcgc agtcctggac acgggggtcg acccgggggc tccgggcacg cagggtacaa 180
ctgatggaaa accaaaaatc gttgatatca ttgatacaac aggaagtggc gatgtgaata 240
ctgctacaga agtagagcca aaggatgggtg agattgttgg cttttcagga agagtgctta 300
agattcctgc aagctggaca aatccctcag gcaaatatca tattggcata aaaaatggct 360
atgacttcta tcctaaggca ctcaaggaaa ggwtacagaa agaacggaag gaaaaaatct 420
gggaccctgt tcacagartg gcccttgcag aagcctgtag aawacaggaa gratttgcag 480
ttgccaacaa cggctcttct caagcaaata aactaatcaa g 521

```

<210> 1429

<211> 306

<212> DNA

<213> Homo sapiens

<400> 1429

```

aagtcactgg gcttagctgg cctctgagcc tgtatgaact cttgttgctg aggcaaccat 60
ggacctgttg ctaggagata gctggggaag cccaaggccg cccagggcag agagaggaga 120
cgaagagttt gggacagtgg gggaggagat ggggaaggat gggatttctg ggtcccagag 180
cgggtgggat actcacgcac agcttcttca ctggtggggg gtggggcaca cattatttct 240
cactggctcat gatttacaag aagaaaaata aaactgcttt tggaacccaa aaaaaaaaaa 300
aaaaaa 306

```

<210> 1430

<211> 745

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

893

<222> (470)

<223> n equals a,t,g, or c

<400> 1430

```

aaccacaagac aatgagctag ttttccctaa agtttgctga actattaagg aatatgttct 60
tatagctttt gactagaatg agtcatggga attctaaraa gggatggcct agacattttt 120
agctcagtta aattcagcat ttaatgcagg tgagttcctg ggtcgttttc caactagtct 180
ggaacagtct ggttctgact caaactggta taaagcatta ttttaggttt tctctttgcc 240
agtttttaag cagttataac catgtaaatc aagatgtgag gacatctata tgaagtatag 300
taaagaagtg gtgtcagcag atcaatatgt gtgtcctggg tgtgctgctc tcttaagtga 360
gactttgtga gactatactt taaatgcatt attaccattg cttacatttt gggggatttt 420
cttcctcctc aaaacttcca tttctattgt aatattctta atgacaatcn tttttttttt 480
ttagcagtgt atgtttgaaa cagccaaaga tggcgatgaa ccaagtgtaa attgatctaa 540
gcagcccatg cagtttgtgt tgaatcaaca aacagtgtat tgttgaagtg aaattatttt 600
ctgaaatgac ttgttagacc agttttgagg acatactcaa aagtagagta ataatggctc 660
ctgggatgga gaaatatgag atgaacctgg aacattctat tatggtgcc acaaggaaat 720
ctaaaaaaaa aaaaaaaaaa aaaag                                     745

```

<210> 1431

<211> 931

<212> DNA

<213> Homo sapiens

<400> 1431

```

cagccccaat gtccagcctc tttaacatct tctttcctat gccctctctg tggatcccta 60
ctgctggttt ctgccttctc catgctgaga acaaaatcac ctattcactg cttatgcagt 120
cggaagctcc agaagaacaa agagcccaat taccagaacc acattaagtc tccattgttt 180
tgccttgggga tttgagaaga gaattagaga ggtgaggatc tggattttcc tggactaaat 240
tccccttggg gaagacgaag ggatgctgca gttccaaaag agaaggactc ttccagagtc 300
atctacctga gtcccaaagc tccctgtcct gaaagccaca gacaatatgg tcccaaata 360
ctgactgcac ctctgtgcc tcagccgttc ttgacatcaa gaatcttctg ttccacatcc 420
acacagccaa tacaattagt caaaccactg ttattaacag atgtagcaac atgagaaacg 480
cttatgttac aggttacatg agagcaatca tgtaagtcta tatgacttca gaaatgttaa 540
aatagactaa cctctaacaa caaattaaaa gtgattgttt caaggatgat caattattga 600
tgacctattt tatttttcta taatgatcat atattacctt tgtaataaaa cattataayc 660
aaaacattct gtttaccttt tcagggctgt attgattggg gtgtagactg aactatccgg 720
ggtctgtttc ttttcggtga tgaaagtctt gagaaggtag taatggataa gatgtgaggg 780
agaggagaga gggagatttg gagtgtaggg tgagtgtccc tcttcttaga actgaatact 840
cttcttctaa tgaacttgta ttcttgtttc catgtcttct tccctttcct tctatagcaa 900
ataaagcatt cactttgttt tggaaaaaaa a                                     931

```

<210> 1432

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

894

<220>
 <221> misc feature
 <222> (341)
 <223> n equals a,t,g, or c

<400> 1432
 aattaaattc tttgcaaaat tgaactttctc aactaaaacg tgtccatgtc agaatttttaa 60
 ctgttagcag gtagttttgtg gcaaagatgg ctaaataatg aagcaaatta gaatctgcgt 120
 gtatactaata gagctgcctt ttttctgttg agactatcat tatttgcctt attacccaag 180
 aggcaattac ctgaatttgg atgtctgaat tataacttat gcaggaatag ttctgtaaat 240
 acattttaaata aaactgtaaa gatattttaat aaatatagta tttatactaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa aaaaagggaac 360
 caaa 364

<210> 1433
 <211> 2593
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (180)
 <223> n equals a,t,g, or c

<400> 1433
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 actttgtttt gtgaattttgt actgtatat ttagtaactg tcaggcctttt atttaaaaatt 120
 gtttmacatg taccatgtac atgtcattac tataatttcaa tgcacatgac ttgtaacagn 180
 gcattttcatt tataataaga atgagttatt catttgtgaag ccgttcagta atttatctac 240
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 gaatgcctta actaccctaa cttgacaaaa cagaatttctt tggtagacgc ggtggggggcg 360
 ggggtgggggg tctggacgga gtctctattt aaggagaaat catcatgcta tgcataaaac 420
 acagaagcat gagggtgcaag tggcggggta tttattttgc acaaactatt tgcagtctct 480
 gtgtattttta aaagtaaaga aagttgcac cagaagggtt ttgttagaat gaatacattt 540
 atattaggac tgacaacttc agctcttttg tttagggttt caattatttt tggtaagagt 600
 atgtagcctt atgatctgga tataattttgc attcattttc caacgcctac atttaattcc 660
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 cacaattctt gttaaagctag attggtggtg ttttatacaa cttattttact cagcttacct 780
 ttttgagaaa cgattgttag aaattgacga tgtgtttgtt ccagtgtatc tgaaagtagt 840
 ggggggcaaga attgagtttc acagtggaaat tggcctttgga tctggcctat agattagtga 900
 cataaaatat tttctctatt tttccctgtt cttttttgtgt tatgcactta attttatgac 960
 tgccgggggg gtcagctgga gtgctgctta acaagtatct ctctactct cagtgggtcag 1020
 aggtgtgtgt ggacccatag tagaattttc caggtcacag acccaagctt ccatgggttg 1080
 ttactgtgct gtaccacttg gtgggtctga ttctgaacct gatgtgtgtg ttaattatat 1140
 ttttaagcaac acacacacac acacacgcct catgtaatgg actttttataa caaaagaaaa 1200
 aatttggatt tctaattttac aaatggcaaa ttattttatcc ctctctggat gcaccaaaaga 1260

895

```

ccagtaaagt ttatagcttt tccatctata ttataaaagc aatactgtat tataaaaaatc 1320
aatattttta tcacatgctt gaaattttta ttttgttgtt ttaaaatgtg cactctaaac 1380
atatcagaac cttatttctt cctatgaact taagctgcct gcgcacaaaa aaaaaaaaaa 1440
tttaccaaat ggagatgcag tagagtccat aggctctaaa aactaaaaga aatgggatgc 1500
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gttctggata ggacagtagc ccggagatgg aaaccacctt cagtaccatt agcccacat 1740
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gaatagtaac taaatgagac accagccctt gacattgagt ttgttgggtc ctatcagggtc 2400
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ccagctgctt cactacatca gtttagcttc ctcagaaatt catcaaaatg gacggacaat 2520
taaatgtaaa ttatagaact ttttcccagc tgaggctttg caccttccgt atagtataga 2580
gggaagctac aaa 2593

```

<210> 1434

<211> 1052

<212> DNA

<213> Homo sapiens

<400> 1434

```

ggtttttccc gggatacatc tgtgttgagt cactttgcat tcaacagtgc ctgccacca 60
aatcatata taagaggaaa actaggactg gaagaatatg ctgtctttta cccacaaat 120
ggtgttatcc cttttcatgg attttcaatg tatgttgac cactttgttt tctataccat 180
gaaccttcca aattgtatca gatattccgt gagatgtatg tgcgtttttt cttcagactc 240
cattccatct cttctcatcc ttctgggtatt gtgtcactct gtctgctgtt tgaaactctt 300
cttcaaaact atcttcccc aactctttat catctacgag aaattggggc tcaaccactt 360
cgcatatcat ttaagtggat ggttcgagct ttctctggat acttagctac agatcagctc 420
ttgcttttat gggatagaat cctaggatac aactctctgg aaattcttgc tgtgctggca 480
gctgccgtgt ttgctttccg agcagtgaac ctgatggagg tgacatcact ggctgcagct 540
gaaaatctag ctgcccacag tgaacagttc tgcactgtc ctctattccc tgagctttac 600
agagtccaga tcccattgtac tgctgaactc aggcagaaag aagagtgcag tttattggac 660
tccaaatctc attcaacaga acaaagaagt tgaggttgca aggaagaacc tataatgatg 720
ggtcatggaa tataacctag aaaagaagag aaataaaaaga gactgtgttt caccatgttg 780
cccaggctgg tctcgaactt ctgagctcaa gcaatccacc ctctcagcc tccagaagtg 840
ctgggattac aggcattgaga caccaagtcc agccataagg ttcttattct atatatacat 900
gaaatgatat cacttgaagg tagactgtga taagttaa atcgatatatt tttaaatctt 960
caaacaacca ctaaaataaa agaacaaaga gttacaacta aaaaaaaaaa aaaaaaaact 1020
cgtagggggg gacggcgtac ccaattacgc cc 1052

```

<210> 1435

<211> 665

896

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<400> 1435

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ggcacgagcc gatagctgct tcgggattgg cgtccgggcg gctatctagg ggctgctggg 60
aagatggcgg actcgggtggc tagccgatga ggaggcccg ggagggaacc ggccccggg 120
ccccgagacc gactgaggga gcgacctgcg cagggcccg ggagtcatgg tctccatcac 180
ccaactccat gcttcgagtc ctgctctctg ctccagacct ccctgctcgg ctgtctggcc 240
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ctgttgagg aggccccagt gcaggctcct tgcaaggact gcagcggctt ctggaacagg 360
cgaagagccc tggggagctg ctgcncctggc tggggccaraa cccagcaag gtgcgcgccc 420
amcaytactc ggtggcgctt cgtcgtctgg gccagctctt ggggtctcgg ccacggcccc 480
ctcctgtgga gcaggtcaca ctgcaggact tgagtcagct catcatccga aactgcccct 540
cctttgacat tcacaccatc cacgtgtgtc tgcacctgc agtcttactt ggctttccat 600
ytgatgggtc cctgggtgtg gccctggaac aggagccaaa gcttcgcctc cttcgaagnc 660
acctt 665

```

<210> 1436

<211> 1104

<212> DNA

<213> Homo sapiens

<400> 1436

```

aaagatgggc aacttacggt cggactgggt ggctacctaa tgttggttaag agttcaacaa 60
tcaacrccat catgggcaac aagaaagtat ctgtgtctgc cacacctggt cacacraagc 120
actttcagac tctctatgtg ragcctggcc tctgcctgtg tgactgtcct ggcttggtga 180
tgccatcttt tgtgtctacc aaggcagaaa tgacttgag cggaatcctc ccaattgatc 240
agatgagaga tcatgttcct cctgtatcac tagtttgcca gaatattcca agacatgttt 300
tagragctac ctatggcatt aacatcataa cgcttagaga ggatgaagat cccaccgac 360
ctccaacatc ggaagaactg ttgacagctt atggatacat gcgaggattc atgacagcgc 420
atggacagcc agaccagcct cgatctgcgc gctacatcct gaaggactat gtcagtggta 480
agctgctgta ctgccatcct cctcctggaa gagatcctgt aacttttcag catcaacacc 540
agcgactcct agagaacaaa atgaacagt atgaaataaa aatgcagcta ggcagaaata 600
aaaaagcaaa gcagattgaa aatatcgttg acaaaacttt tttccatcaa gagaatgtga 660
gggctttgac caaaggagtc caggctgtga tgggttacaa gcccgggagt ggtgtagtga 720
ctgcatccac tgcgagctct gagaacgggg cggggaagcc ctggaaaaaa catggcaaca 780
gaaataaaaa agaaaaaagt cgtagactct acaagcacct ggatatgtga ggttgggctg 840
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ggaactgtcc caagacacta gcactgtaga acgggcctg ctcttgacga gcacggctgc 960
acccaacagt ctccatgtca agaccaaggg cctcctggaa acaccaactc tgacaaaaag 1020
gagtcactct ggagccccgag aatcctactc ctggccgggc acagtggcac gcaccaacat 1080

```

897

ggagaaaccc cgtctytact aaaa

1104

<210> 1437

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<400> 1437

```

ccagggtgggt gccctgggtc ttggtgttgt gactggggga ggaggggtgt taggggctgg 60
gggtcacctt atattaacat gaactagagc acacccttgt catggctgga cccaacagta 120
agaggcaaac ccagggtgtc catgtcccta ggatgctcca gcctgctctg gggccacgag 180
tctcacatga ggactggccg cccttgtgtgta caggggcaag agggggccag gtcctgtgcc 240
tggccaggct gttagccgca gtacccacag agaccaccgc ctcctctgc tttccccgga 300
gaggggcttg gcttctagca gtcagagcag ggctnttcca aaaggttggg ccttgccccg 359

```

<210> 1438

<211> 409

<212> DNA

<213> Homo sapiens

<400> 1438

```

ggaggccgta cctccgagag gctcggcggt gagccgggta gggccagggt gctgcccttt 60
cacctagggt agtccctggt cgcctccgct cttcgcccaa aaggggatgc agtccggga 120
aacaagtga ttcattggtat tttacttttt tgggaaatac trgaaatgaa gacctgcaac 180
tgtaatttgr aataaggaaa actttaattt tcrgtataaa aattgctcaa atagaattgc 240
ctgattttta tgacaaaagg tgaattatag tttaatgtac tgcaagtcct aaactacgga 300
tgggaactat tacagtttat aatgtcaaaa acttttctta gaccaaaggt atcttccaca 360
aagtatatgg gagtccacat ttatgtaaga aatgaaacta taaaatgta 409

```

<210> 1439

<211> 404

<212> DNA

<213> Homo sapiens

<400> 1439

```

gtgttgagag cgggtgtggca ggtgtttag cgcctatggt gaagttcgct ttgtagcggc 60
cccggctaga gagttgkyct gttccctgcc tttgtgaccc ggagagcttt tgggaactgg 120
tttgtggcct gtttgattcc tgtcagaggt ttgctgaccc aagacagtat cgaaaatgca 180
tattaagtca attattctag agggattcaa gtcctatgct cagaggaccg aagtcaatgg 240
ttttgacccc ctcttcaatg ctatcactgg cttaaattgg agtgggaaat ccaacatatt 300
ggactccatc tgctttttgc tgggcatttc caacctgtct caggttcggg cttctaaatt 360
tacaagattt tagttttaca aaaatggggc aggtttggta tttta 404

```

<210> 1440

<211> 352

<212> DNA

898

<213> Homo sapiens

<400> 1440

```

aattcggcag agaaattata taaacctgtt gtctctcacc tctacattgg atcacatggg 60
cacctgcctc atggaaatgc ctttttttaa acttcgattt gcagaactcc actattttta 120
tacctagcta cagttttgag aaagaagaat cagaaccctg acccacttac ggttgctggg 180
acaattcccc ctcccgcatg tattgctgca gtgccagga cagtaaaatg gactacaagc 240
ggcgyttcct gcttgggcgg tccaagcaga aggtgcagca gcacagcaat acccgatgcc 300
tgagctgggc cgagcactga gtgtcccctg gcatccacgg ccaccaytgc cc 352

```

<210> 1441

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<400> 1441

```

ttcggcacga aggagactgt aaacaaagat atttgtgaaa agggaacaat tcagcaaattg 60
ataggaatct ttaaaaatat aataagcaag cctaattgaaa aggaagaagc cattgttttg 120
gaaatccagt ctgatataatt acttatccta tctggcsttt gtgagaatca cattcaaagg 180
aaggaaattt tcggaactga aggagtagat atygttcttc atgtgatgaa aacagacccc 240
aggaagttag agagtggctt aggctataat gtacttcttt ttagtacatt ggacagcatt 300
tggtgctgta ttttgggatg ttatccctca gaggattatt ttcttgaaaa ggaaggcatt 360
tttctccttt tggatttggt agcattgaac caaaaaaatt ctgtaattca atacttgga 420
ataatggttg aattttgtga ataatcccaa aactgcagct catgtcaatg cttggcaagg 480
gaagaaggat cagacagctg ctagtctttt aatttaaatt gtggaggaaa ggaggaaaaa 540
gaactaggng taaaacg 557

```

<210> 1442

<211> 568

<212> DNA

<213> Homo sapiens

<400> 1442

```

tcaatgttcc attttgcttt taaaagcttc acaagaacat ttcatttatt aaaatagttt 60
ctgtaaactc tttcagaata acaaaattca cttgccttgc ttaaacagca tttcaagtag 120
aagtattttt atttcaaggc accataaaat gatgatctct ctaagaaata cctctccttc 180
cgtgtgtgaa aatccttggt ggaaaaaaaa tcccacacgg tgttcttggc catcaggatc 240
atgaaaacaa acttttggtga atgtgagcaa ctgcgcagga caggacacag gttacagggc 300
ctgacgtcac taacggtaac tgacaatctt ggaatggacc ctactgctga tgtttcaaaa 360
ggacacagag gtgaactggt cacttctaata taagaagagc cagtgggggtg ggggaagctg 420
aaaacaaaaa atccacgtag acatacgtgg cagtgtgaac gtctgtcctc cccttccttc 480
tctcacttcc ctctcctcct cctcactcag gctgggtattc tcttgggtgtg cggatgtcag 540
cttgccttgc agaagcctct gccgaatt 568

```

<210> 1443

<211> 654

899

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (106)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (156)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (547)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (549)
 <223> n equals a,t,g, or c

<400> 1443
 cctcataagg gnncaaagct ggagctccac cgcggtggcg gccgctctag aactagtgga 60
 tcccccgggc tgcaggaatt cggcacgagg tttgcttcaa aagggnata ttatactctc 120
 tctagtaatc caaaggtatt cctaattttg ccactnctca ttttcgcttc tctttaaggg 180
 ccttatagta tgttctaatt tctcatttgg tagtatgcaa cattcaatat ttctagctct 240
 aaagttccat cattaattat ttcttttttt cttttttttt tctttttttg agactccatc 300
 tcaaaaaaaaa aaaaaaagca aaattggttg catctctaag acagagcaag actccctctc 360
 taagagatag tagtgtctcc cacttaattg aattcgtttt gttttggttg ctttgctttg 420
 attcttgcca cgtaaaatct gtgggtcttg accagagatt tgctcagaca gttaaggaaa 480
 aataatgaag atgtatttgt gaaattttta cataatgaaa aatgagatgt atttgtgaaa 540
 attttangna taaacctctt tataaaatac gtttgtaaaa tataaaagag gtaggatgtt 600
 ttgggctaaa tttagccaca ttctggggtc catacacaca cacacacaaa cagg 654

<210> 1444
 <211> 899
 <212> DNA
 <213> Homo sapiens

900

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<400> 1444

```
gtcttattga actggataat ccaatattat ggatacaatg tcatacagta ttatggaggc 60
atatgtgtaa ttatcantat aaataatact ggagaaattt ccggacgtca gaagtcggaa 120
atggctctca ctgagttcaa atcaagggtg tgggaaggct ccactccttt ggggggctgt 180
ggaggaggat ccatttcctt gccttcccca acttatggac tctgcattcc ctggcttgtg 240
gccccttcct ccattctcaa agccagcagc gtagttcttc ccattctcct catattcctc 300
taacgctgac ctgccttcct cttacgaaga ccctggcatg acatcggccc accagataat 360
ccagcctgag caacagagcg agactttgtc tcagaaaaaa aaaaatcagc ttataataag 420
tgccataaag aaaataaaac tgggagacat gnaagagact gactagggtg gtagtctaac 480
agatggggca gtcaggaagt cttycctgag gaggtgacat ctgagctgag atctgaatga 540
aggataggat ccasccacag attgatctgg gggagaggca ttctaggcag aagacgtggc 600
tagtgcaaag gtcctgaggt aggaatgcac ttggcatgtt caaagaacac agagtcggtg 660
tggctggagc agagcaagtg aggaagagga ctgggagatg aatcaggaag gtgccggggc 720
ttgtaggctc agatgaggaa tttgaggact cttggtgctg agggagaagc gtgaaggaga 780
tgattgatca gggctgactt ctccggagaa ccactgggct ggtatggagg cagcatgaga 840
ttccgagtgg tcaactcaga ggcgagaatc agcaacccca gcatcaactt cagttcgtt 899
```

<210> 1445

<211> 365

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<400> 1445

```
ggcacgagca gagatagggt ttttggaggg ctctctctggg aaatggcccg acagcattct 60
naggttgtgc atgaccagca gatactatcc tggttggtgtg ccctgggggtg ccatggctgc 120
tattcgctgt agattaggct acataaaatg ggctgagggt acctgtttgg ggagatgggg 180
tggcctgcag tgacacagaa aggaagaaac tagcgggtgtt cttttaggcg ttttctggct 240
tgacggcttc tctctttttt taaatcacc ccaccacata aatctcaa cctatgttgc 300
tacaaggggt catccatcat ttcccaagca gacggaatgc ctnattta tgaagttag 360
tgttc 365
```

901

<210> 1446
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<400> 1446
aaaaaaagaa aaaagaaatt tgtgaagttc tactgctcta gttatgcagg gtggcaggat 60
ggcattggta aattgacttg aagtgagaaa aaataatttc tggttttatt ctaagtattt 120
aaaactgtaa attcataacc atgattcatg attttgnatt acaagtctta tgaattctta 180
gaacttcaga agtggccggg tgtggtggct cacactgtaa atcctggcac tttgggaggc 240
caaggtaggc ggaccacctg aggtccagaa gtttgagacc agcctggcca tcgtggtgga 300
aaccctcatc ttctacttaa ggnatacaaa aacttaattn gggatttggt ggtggcacat 360
gcccgtaaat ccccgag 376

<210> 1447
<211> 303
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<400> 1447
aattcggcag agctgagatg aggaagtata tatttgggta tcatttttac atcctgttga 60
aagctccagg aagagtgggc caattctaag ctgttcattt acagagaagt tgctctcacc 120
tttctcttc cttctaaatg aactttggag ccctgatctt ctttgtaagg gacaaccaga 180
ccctccttc atgcattccc cttcagagtc gctgctagtt gcctggctcg agtgragtgg 240
catttttgaa ttttggccgc ttcagctgtc ttgggggcct nggggcgggc tccacacctc 300
ttt 303

<210> 1448
<211> 525
<212> DNA
<213> Homo sapiens

902

<220>
 <221> misc feature
 <222> (511)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (522)
 <223> n equals a,t,g, or c

<400> 1448
 ggcacgaggg cgtgagcact gcacccagcc aaaaatttta catcttttat agagggaaaa 60
 aaactcttta taccatggca aggccttttc tttcacaaaa agctgggcct actgaacaat 120
 tcaagctgtg cagtagtaga ctgaaagcag gatttggtga ggagttacag ctctgtcca 180
 gagcaaatcc tgtagtgata caaggagaat gttaaacttg cagcttagac agggatcagt 240
 cctgagactg ctggcagtag caaatggcta ttagagtaac tgtataatgg ttttgctgc 300
 actttctcta tgtatataca aatgtacatg tataaatata aaaattaagk gatcatgggt 360
 cttggtaacc tgtcccaagt gctgkgattc acacgcctga cactaaaagg ttcttctctg 420
 tccagtcagc cagctgtrac caccagcagc acagctgagt gctgagaatc tggctggaaa 480
 ragaaatgtg gctcaagtgc tggctcacct nctagctgtg tnggg 525

<210> 1449
 <211> 619
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (62)
 <223> n equals a,t,g, or c

<400> 1449
 ttaccattgg aatttaattt aagacaaatt tagtgtgaac agtgaattta ttttaagacaa 60
 anccttaaag atttgtagaa taatgacctt agttttttca tgatggggccc ttaccacaaa 120
 aacctgcttt ggcatttggt taaccagac ctcatgctgg gttaaagtat atagatataa 180
 cagtaattca gatttaaatgc atatcttgga ttgggactga ctgaggaacc tcttgtttta 240
 aagtgatttg tagtataatc ataacgtttg atccttttgg gtaaaatagt agctgacaaa 300
 aaataaatac aaattaattt tcatgctcat ctttacctga aagactcaga tttctcttta 360
 agccagctca ggaatattag gctaaaccca gctgttttgc agatgttctt actcagattg 420
 aaacatcaat taattaacag gtatctattc atatttaact agaaccctgc taatgtagag 480
 aaataatact tttttaggag atcttttttc agttctctct aaaatgtcat tttatataaa 540
 tttctcttat atttttataa gattgtatac taggattgag gatgtatagg tacatatatta 600
 taggatgcta tcaatttggt 619

<210> 1450
 <211> 316
 <212> DNA
 <213> Homo sapiens

<220>

903

<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<400> 1450
ccntgnagta gctgggacta caggcacacg ccaccatgcc cagctcattt ttgtattttt 60
agtagagatg gggtttcacc atgttgGCCa ggatggctcc atctcttgac cttgtgatcc 120
gcccgaactcg gcctcccaaa atgctgggat tacaggcgtr agcatncaag tctggcgaga 180
garattgttt ctagatgagg gtgggggGcg gtgtccttag cccaaagctt gtgccagtct 240
ctatcagaaa taaatgcccc caaaacctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaa 316

<210> 1451
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<400> 1451
ctcaaatgaa ggtttgcagt ctgtctaate aaaggatggg gcgtantgcn taaaatcaaa 60
agatttgGta aaacaaaggt acttatttgc aaaagctggc taccctctaa gaaggGtca 120
gtctttacca accaccttat tgagcccagt aagggttGtn tcctctgtca atgttcgatt 180

904

```

atctccagga aaagagacca gatgcagccc accttccttc acctataagt acacacctga 240
agaggagcag gaattggaaa agcgggtgat ggaacatgat ggtcagtctt tagttaaatc 300
gaccattttc atctctccat catctgtgaa gaaagaagaa gccccccaga gtnaggcgcc 360
gcggg                                           365

```

<210> 1452

<211> 770

<212> DNA

<213> Homo sapiens

<400> 1452

```

caagtcgaac ggtaacagga agaagcttgc ttctttgctg acgagtggcg gacgggtgag 60
taatgtctgg gaaactgcct gatggagggg gataactact ggaaacggta gctaataccg 120
cataacgtcg caagaccaa gagggggacc ttcgggcctc ttgccatcgg atgtgccag 180
atgggattar ctwgtwgggtg gggtaacggc tcaccwaggc gacgatccct agctgggtctg 240
agaggatgac cagccacact ggaactgaga cacgggtccag actcctacgg gaggccagca 300
gtgggggaata ttgcacaatg ggcgcaactg atgcagccat gccgcgtgta tgaagaaggc 360
cttcgggttg taaagtactt tcagcgggga ggaaggaggt aaagttaata cctttgctca 420
ttgacgttac ccgcagaaga agcaccggct aactccgtgc cagcagccgc ggtaatacgg 480
aggggtgcaag ckttaatcgg aattactggg cgtaaagcgc acgcaggcgg tttgttaagt 540
cagatgtgaa atccccgggc tcaacctggg aactgcatct gatactggca agcttgagtc 600
tcgtagaggg ggtagaattc caggtgtagc ggtgaaatgc gtaragatct gggaggaata 660
ccggtggcga agcggccccc tggacgaaga ctgacgtca ggtgcgaaac gtggggggagc 720
aaacaggatt tagataccct gggtattcca cgccgttaaa cgatgttcga 770

```

<210> 1453

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 1453

```

agcctttctg ctctgaact aaaatcccta gccaaagacct tccacttggt gaatcccaat 60
ggacagaaac agcagctggt ggacgccttt ctcaaattgg ccaaacagcg ttcagtctgc 120
acttggggca agaataagcc tggaattggg gcagtgattt taaaaagggt ttgttggcta 180
ttgttacagt aaaaacattt aaaatgttga tagcacatat taacttacag tagrttgtat 240
ayttgattga actgtaattg tttatttcag ttgtagttag attgagaagg ctggaaaagc 300

```

905

```
cttaattgca atagcckgga ttctttcttg ggttattatt caaaattttt gtcgtaatac 360
cgtactaatt tccmggacca agaaaaatcg garggcaata ggccttttgt aaattgtagt 420
atthttattht cccgagaaaa atacagthtt aagtgatcct tatgggattt ttaagggttaa 480
ctatthtagtc ccaatthttta thtttagthtt ggthttactna aacnaattat atccggcgtc 540
cttaagthtgc aatthttncct cg 562
```

<210> 1454

<211> 1767

<212> DNA

<213> Homo sapiens

<400> 1454

```
aggccaagca tgcaggcagg cttgtaacaa actccttggc caggagctct gagaattagc 60
ttcacttccc tcagaaatgc cccaattccc tcctggaaga ggagctgtgt gacastcagg 120
ccaggggggtc gggactcccc ccatctcctc cgcacacaca tacccttgca cacataccca 180
gccacgtaca gctgggtggc tgtasgcaag tcattthttct actctgagcc tcagggtctt 240
cctctgtcca cctcccccca ggattamtgg cagaattagg tgtgagcttg catttaaaaa 300
gaggthttgtt ttgtaaaacc aggccttgca aattggcagc ccaagtctca ggggcctgtg 360
cagtgaactga tcattaccaa catttcgaag tgagagatgt cacataaaga gcgtcatttc 420
gagcttctct tgaaaagttg taaggtgagc taccctggga ctgtattcct gaatggcaat 480
gtgatggcag agtctctgag tattaccacc tgwggaacttg tgcaccaggt tcccaccac 540
ccacttcagg cccttggttc agggatgtgc cgtcatgga aatamcagg gctgtggctc 600
tgctggthtt ggctthtctt ctctgtaacc ttccaatctc tttctccttc cagggtactgt 660
aaaccactta gtaattaatt agttaataaa ttcatctcat cagcacttht aaataatgtg 720
ctaggccaca ctgtcatgga cccagatat acagcagcaa acaaagcagc catggtacct 780
tccctcaggg agcagtcagt ccagtgagg agtcagatat gactcaccac acagatcgaa 840
aaatctycac aaattatgag aagaatgctg agggaagaaa gaacataggt ggaccgctgc 900
tgagtcagg cttacttgca gagatctatg ctggccaggc cctgtgctag gcagcagagg 960
acatggaata aaatcaaata aggtcactgt gtgcaggact cacggtgtgg taaaggagca 1020
gccccatcca caggttctat taattccagc ctgtgagaat tggaaccaca ggggtgaattt 1080
tgaggagacag gcacttacac taatctggaa gcataatata taaagagtac ctacaaatca 1140
ataaaaaaaaa tagaaaaaaaa aagagcaaag tatatgaaca gaaaattcaa tgaaaaggaa 1200
atagaaatgg ctcttaaatg aatgaaaaca tactctcact cararaaatg aaaatttaac 1260
ccatgtcaar atacttgggg tgaagggaag gthtttaaaat tcgattgtgg tgatggtht 1320
aaccctataa atthtactaaa acttattgaa gtgtaccttt aaaacaaatg aactthtatg 1380
tatgtcagtt atatcacaat aaggctatth taaaaataaa aacactthga gataccattt 1440
tatacctgtt ggtattagca aatgtcaaaa cactggataa tgcattatgt tctaaaggc 1500
atgggggaga cggcctgggg caagcgtcca ctgatgcatt cttgggttgg ggtgggcaac 1560
aggacgctgt caaacatata aatacattht cgctytgagc tgggaattcc actcatagga 1620
cttcatctga tatatatgct ttacatctga aaaatgtata aggaaattca ccacagcctc 1680
atagattatg gcaaaagtht ggaaacaaaa gatgthttgtc tacagggtgaa argthtatgc 1740
actgtcaaaa aaaaaaaaaa gtcgagc 1767
```

<210> 1455

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (112)

906

<223> n equals a,t,g, or c

<400> 1455

```

gttttggttg ctccgttcct gaggtgacac ccggttcacc ccacgtgtta aaccccgagc 60
cgcgggctgc cctgtgctgg atattgccta catccagcag ccctctgagg gnatggtttc 120
tggcctgcct ccgttgccag ggtcctcact ggtgtgacca accatytggc ttttaacact 180
aaaaagcccc acatcctgag gaatcccagg acacagaaag tcctgggttt tgtcagtgat 240
gcagaagggtt ggggtggaaag tatgaaaccc acacagaggg atgacagcac catttgtagc 300
atcggatgga aatggcgtgg atgatctgcc tcgagtggtc actgtcgcca tgttgccctga 360
cgtggatgct ggcacagga cttgtgatcc accatggatc 400

```

<210> 1456

<211> 1012

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 1456

```

tntgtggcag aaaaatatgt tttccaggta gtttttacta ctacagagag tctgtaaata 60
agtgccttaa aaaaataaca aaccaataag atatttgtyt cctatataaa cattctgtgt 120
atttagcact tggaaaatca acaaatccag aatttaaaaa aatgccacag acttttcaaa 180
gcccaactgt acttttttga gaattgtccg tacctactaa tatgccttat tcttcttcac 240
ctagtgtttt aaaagtcctg ggtagaaaga gtttttagaaa tgtaatcagt tgttcagctt 300
caataatata gagatctaac atagtcagtc ctcaggcccc cttaaagaaac aagcaagaaa 360
gtgagggcca tcactagggt tggccttggg gaggggaaaa ctaaggactg cttttgcaa 420
atgatatttt tgataatgta aggaaacaca gggaccacaa aacctttttt tttttttaag 480
tgtgaaagat tagtgccctt tggcatactt ttgattttag aggatatagt atcggcattg 540
acaaatcacg tagaaacaaa gaatgctata ttgacaaca gtattaaatg ttactcctga 600
ttctgcagaa cagcttttga agatactggg gggatatctc aagcctcaga gcagcttggt 660
tcagatagaa attctctatg ggttgaaatg ccaaaaacag aaaacatgat gttgactcat 720
gtaatttagt ccatttttag agagccttta gtgttaacac cagtggcgag gagcattgca 780
tattctctgt cagcagcagc actcccacac caggtgggtc tgggctctct gtaggctggt 840
cctagtaggc gacaccagc aacaccctg ttggacagga ttgattgttc gcagtcttag 900
accaacactt cagtcagaaa tgttactggg aggaggaaa gaaaatactt ttttctctcc 960
atgtggaaat gaggagagag gaaagtggat tggaaaacca aaatgtgagt ca 1012

```

<210> 1457

<211> 637

<212> DNA

<213> Homo sapiens

<400> 1457

```

ggttttcatt gacactcttc cctcctccca cctgccacca ggcctcacca aagccactg 60
ccatggggcc atctgggcca ttcagagact ggagtgagat ttgggtgtgg agggggaggc 120
gccaaaggtg aggagcttcc cactccagga ctggtgatga aaggacaga ttgaggagga 180
agtgggctct gaggtgcag ggctggaagt cctgcccac tccactct cctgcccac 240
tctatctagt acttcccagg caaataggcc ctttgaggc tcctgagtgc cctcagatgg 300

```

907

```
tcaaaaccca gttttccctc tgggagccta aaccaggctg catcggaggc caggacccgg 360
atcattcact gtgataccct gccctccaga ggggtgcgctc agagacacgg gcaagcatgc 420
ctcttccctt ccctggagag aaagtgtgtg atttctctcc cacctccttc cccccaccag 480
acctttgctg ggcctaaagg tcttggccat ggggacgccc tcagtctagg gatctggcca 540
cagactccct cctgtgaacc aacacagaca cccaagcaga gcaatcagtt agtgaattga 600
atggaaataa acgcttttagt tataaaaaaa aaaaaaa 637
```

<210> 1458

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (539)

<223> n equals a,t,g, or c

<400> 1458

```
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tggatccccc gggctgcagg aattcggcac gagtcttttc agactcagcc cacttgcacc 120
caagtraatt aacagccttg ttgctcacac aaagcctgtt taggtggtct tctataygga 180
catgcktgac acttggtgcc aaaatctggg ccagggggac tccttygtga gaccggcccc 240
ctgtcctggc cctcaytccg tgaagagatc cacctgcgac ctcggtctct cagaccagcc 300
caaggaacat ctcaccaatt tcaaatcgga tctcctcggc ttagtggtctg aagactgatg 360
ctgcccgatc gcctcagaag ccccytggac catcacagat gccgagcttc gggtramtct 420
tacggtggag gattcccagc catatgaaga camcttagyt ggacgwtcat ccttgtcaaa 480
agtctgaccc ytcaaaytyt acagcytcaa tgggaccaga cctaccggtc atttttagna 540
ca 542
```

<210> 1459

<211> 531

<212> DNA

<213> Homo sapiens

<400> 1459

```
atatccgact cactataggg aaagctggta cgcctgcagg taccgggtccg gaattcccgg 60
gtcgacccac gcgtccggaa tcttaggcct aagattcttc atgtaaaaat tataagactg 120
aataaagaat cttaggccta ggaggagaaa atgattttct ttctattacc taactagatt 180
ggggcatatt tctgataaag acccacctct agtgagattc atcttttttg tttgtgtgac 240
tatattccat agagaagaaa gatgggatag ctcaacttca ttatatacca aagcaaaaaca 300
catgccaaat gatgactaca ttttaccac atatttagac gagtattctt gactagtgtt 360
```

908

tactatctat acccccaaaa ctactactat atagacagaa tggaaagtat ttctatttgt 420
 ccttttttttg ttttctgttc taattgtcag ggacatatgt agtgggtata ggtttactta 480
 aaaggaataa atttggaatg ctcmaaaaaa aaaaaaaaaa aaaaaaaaaa a 531

<210> 1460

<211> 607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<400> 1460

tattcacgtc cccaggtcctca ttcttcagcc tcaggaggaa ttagaagggtc ttcatctatg 60
 tcttatgttg atggcttcat agggacatgg cccaaagaga aaagatcatc agtgcattggc 120
 gtatcatttg atatttcttt tgataaagaa gatagtgtac agagatccac tccaaaccga 180
 ggaatcactc gttctattag taatgaagga cttactctga acaacagtca tgtatctaaa 240
 cacattagga aaaatttggtc cttcaagcca ataaatggag aagaggaagc agagagcatt 300
 gaagaagaac ttaatataga ttctcacagt gacctcaaat cttgtgtgcc ccttaacaca 360
 aatgaactaa attctaata gaattattcat tacaagcttc caaatggagc tttacaaaat 420
 agaatacttc ttgacgagtt tggcaatcag atcgagacac caagcattga agaagcatta 480
 caaataattc atgatactgn naaatctcct catacacctc agccagacca aattgctaata 540
 ggcttctttc ttcatagtca aggaatgagt atcttaaatt canatatcaa gttaaatcaa 600
 tctagtc 607

<210> 1461

<211> 121

<212> DNA

<213> Homo sapiens

<400> 1461

caggaaggat aagccatgtg gggctctagaa ctgagggttc tagacttcca gcccagtgtc 60
 ctctctgctc taccatgttg cctctagttg gagagacagg gcagaagtga tggtaaagaa 120
 g 121

<210> 1462

<211> 706

<212> DNA

<213> Homo sapiens

909

<220>
 <221> misc feature
 <222> (682)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (699)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (702)
 <223> n equals a,t,g, or c

<400> 1462
 gctgtcacag gccatggatg ctccatggag ggggtggtgag catatgaata acaatcaaga 60
 gaaacatcgg taatggacag gaggcacaa taaacaatgt ccaccctcct ctaaaaccca 120
 ggaaagtctt cattcaaaag acgatgtctt gaaggaaacm taggtacaaa tctttgtgay 180
 tttggattag acatttttta agtaggcaca aacaaccgaa aaatagataa atggacttca 240
 ttaaaataaa aaacttgtat gcttcaaagg acactgtcaa ggaagtgaaa agataatcca 300
 cataatggga gaactatttc caaattgtat gtttgacaca ggtctagtag ctagagtrta 360
 taaggaattc atataactga gcaataaacg acaaccacat ttaacaatgg ggaaaaaaag 420
 ctgtgagtag aggtttctct aaaggaaaca cacaatggc caagaagcac atgcaaagat 480
 gttcaatgtt tttcgtcatt aggaaaaatgt aaatttaaac caaatgaga taccacttca 540
 maccagcag tatgacttaa gaaaaaaatw aagacmacac atgtttcaaa agtgatggag 600
 aatatggaat tctcatatat tactattggg gaattctaaa tgatrtagct ctgaagttag 660
 taaacagtgt gtgagttcct tnaaaaagtg aaaccttana gnggcc 706

<210> 1463
 <211> 1765
 <212> DNA
 <213> Homo sapiens

<400> 1463
 gagaaaacaa ttctgaccgg agaatgctgt tacctgaacc ccttacttcg aaggatcata 60
 agattcacag ggggtgtttgc atttggactt tttgctactg acatttttgt aaacgccgga 120
 caagtgggtca ctgggcactt aacgccatac ttcttgactg tgtgcaagcc aaactacacc 180
 agtgcagact gcyaagcgca ccaccagttt ataaacaatg ggaacatttg tactggggac 240
 cgggaagtra tagaaaaggc tcggagatcc tttccctcca aacacgstgc tctgagcatt 300
 tactccgcct tatatgccac gatgtatatt acaagcaca tcaagacgar gagcagtcga 360
 ctggccaagc cgggtgctgtg cctcggaact ctytgacacag ccttcctgac aggcctcaac 420
 cgggtctctg agtatcgga ccactgctcg gacgtgattg ctgggttcat cctgggcact 480
 gcagtggccc tgtttctggg aatgtgtgtg gttcataact ttaaagggaac gcaaggatct 540
 ccttccaaac ccaagcctga ggatccccgt ggagtacccc taatggcttt cccaaggata 600
 gaaagccctc tggaaacctt aagtgcacag aatcactctg cgtccatgac cgaagttacc 660
 tgagacgact gatgtgtcac aagctgtttt ttaaaatcat cttccaattc tatacttcaa 720
 aacacacagt tgctcaatgt caaactgtga tgacaaatat tacgtttatc tagttagaag 780
 ctaatgtttt gtacattttt tgtatgagga agtgatgtag cttgccctga tttttttttt 840
 tttttttttg gtcagcttta atatatttat gccagaattt taaaaccaac aaaattttct 900

910

```
tgttcaagcg tgcattgaag aaccacattt attcaatggt tgaagtgtgt ttgtgatatt 960
tgtacacaaa ttttcttttc tcagttttat aaacacagaa tataacaatt cacttttaaac 1020
ttttattacc acagttgctg cctcctccag aatttttgaa ttttaataaa aggcaactt 1080
ttgagctgca ggaaggacaa tgttggttaa taataaatct caaagtcaat tgtagaaaaa 1140
aaattgtctt caaaaagaat gttgcaactt gatctcttaa caaattgtta cgttcaaagt 1200
ttaagtgat atattaacar agtcacctag ttatacaaac aattgtcaga gaattctgga 1260
tttggagggt attgggggta tatgattctt tcttagataa tggcctctac taaataactc 1320
aagatctttc tggaatgtct tctggcaggc aggtgccact gtcagctttt ctccaaaaag 1380
cagccaacat cagcctcccc tgtcaactca acagttttgt atctcatatt atatggactt 1440
tatatgaaaa tgaatatatt acagtttgca cagtattatt ttacagaaaa ggaatcagag 1500
aatctacaac atagggccccc agaacaacag tttcactttg tggcttttaa ttattctaga 1560
attttaactg catctcattt ttctagcatg gtgagaacta atatgtaact cttttgattg 1620
aaggagctct tttgtccgta cctatcagaa tgttttcttg acacttccat gttggctctt 1680
ctcagctttt tttgtacata tttttttttt ctaaagagaa gaaaaagtta tcacaaaatg 1740
taaaaaaaaa aaaaaaaaaa aaaaaa 1765
```

<210> 1464

<211> 475

<212> DNA

<213> Homo sapiens

<400> 1464

```
ggaaaacctt tagacttttt ttagcaatta gtttgacatt cgctactata gtaaccaagc 60
actcattata tatgcatect ccaaatgttt catgcttatt tataggaaag ttatattaat 120
gagattaata atgtgaaata cagttttcct gcaaaattag cattagagaa ttgattttag 180
ataacagatt tttaaagttt tagagaaaag tacagtaata cagtaaactg aargagtata 240
tagatagcaa taaaataaca taagtggaca tgtttatagt aaatactctg aagtaaacam 300
ccgtttttat taactgcate tcattagggg aagtttatat gtcttggtat tttttattaa 360
cattttattt accattcaga gtgaaaatta ctaatttgrg tattaacaaw taactgrata 420
aatggtcatt acagtttaggt tttcccaaat tgcmaaattt gccttaggca ttatc 475
```

<210> 1465

<211> 198

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<400> 1465

```
tggcaggggc actggcccg cccgcacctt cctagcagcn agttacccaa gaggaagctg 60
ccttgggsc tccagaccgt aaatgccaac tcctggcttc cggtatcagg ctgggttgac 120
ctgacctggc cccttcttgc tgggccctgc agctttctaa cttgccgggn ggagcagtga 180
cacccgcccc acatgtgg 198
```


911

<210> 1466
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 1466
gtggcagagt gccctgcggg actgccagcc ctcctgtcc tccctcagca acctggcgga 60
acagctgcag gccgcacaga acctgcggtt tgaggatgtg ccggcgcttc gggccttccc 120
agatttaaaa gagcggctga ggcgtaanag ctggtggctg gtgacatcgt cctggacaag 180
ctaggggaaa ggctagccat ctcctcaag gtgcgagaca tggtcagcag ccatgtggag 240
cgagtgtttc agatctatga gcaacacgca gacacagttg gcattgatgc tgtcctgcag 300
ccttcagcag tgagcccctc tgtggctgac atgttggaat ggttgcagga tattgagaga 360
cattatcgaa agtcgtacct gaagagaaaag tatcttcttt cgtctatcca gtggggagac 420
ttggcaaaaa tacaagcttt gcccaaggcc tgggaccgaa tttcaaaaga cgaacaccaa 480
gatcttgtac aagatatcct attgaatggt tccc 514

<210> 1467
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

912

<400> 1467

```

ggcctntatt ngaaagtcca tcnggttccct aacagngett cctctttcca gggctctcca 60
tggcgtgcgg aacttcccag ggnaacgtga aacctgtccg cagtccytgc ccytgccctt 120
tcttttkggag acgtgtgaaw gagcmgcasc cacttttaatg tgaggccasc catataaaca 180
atraactttc acttscgccm ggaggtcata aactcaggtc accaaagaat tctagcttca 240
gctcttggtt tagtaatgta ccaagtttgg tattactttt tgtttgtttt aatcaggttt 300
ctgccctcat cttctatttg ggaaattaaa actgggtctgt tggcatggct ggtgactgag 360
cggcaggcac attcttagtc tctgactttc tgcagccatc tttgagtgc tataagtgtt 420
gggtaacagt ctactgaatg tgctacaagt gtgcggagtt gtgttcatct ttaacttggt 480
tttttttaaaa aacaetctct tggtaaattg ggatctcctg ttgaaaactg tatttgtttg 540
gcagttgagt ttatgcctgg agcccctaga gcacatttaa ctggttggtg gtcagttgta 600
ccatactgaa aaaaaaaaaa aaaaaaaaaa tggggggggc cgaccccat 649

```

<210> 1468

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

<400> 1468

```

tccagtattt tcgggggctg gtggacgcgt gggcgatagg gtgctgtcct tgggggtgctg 60
tgtatatggg atgatgacgc ttatcagcay tatctagtcc tttccacccc gaaattcgcc 120
ccgattaaag actgwggtgc attatcagggt aatgagatgt gagggagggt ctttgaaagt 180
ggaaaaacctg ggcgtcgagg ccactgtgcc atcttgggnc ctcagtttcc ttatctgtga 240
aatgaggggt aatgtaaagc tgctatgtaa aatgtaaagc tctacataaa ccactctctg 300
cattactttg gatatatgag aatattaacg tttgacgtct acgagactag atccccattcg 360
agcatcacct cccataacct tacagactaa cccctctttt aaatctcagt gggttcgtaat 420
cttacagact aacccctctt ttatgtctca gtggtcttgc agctggcttt tgttcatta 479

```

<210> 1469

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 1469

```

gtatccggat gggctcattt tatatgtggt ttaaactctg agctagaagg caacactact 60
ttcttgtgaa gcacaccatc tgtccttggc cctagggagc tcctgccgtc ggtcactggg 120
tcccctgatg caccctttc aacagacttt tcattttggg gtacgtsctg acttcctggc 180
actgcagggt gctccagcct cctcttgcct tccctgccct ggcccgggaa tcagccccctt 240
ctccaaggag ccccggttcc ttttattggc aagtcttaag agagtgaggc ctgggtgccca 300
ggcagggagc cccaggtcct tttattggga agtcttagag agtgaggcct ggggtgccagg 360

```

913

tgggtgccag gtgggtncgg tgctgctggg atgttgtca

399

<210> 1470

<211> 460

<212> DNA

<213> Homo sapiens

<400> 1470

```

ttaaccctca ctaaaggga caaaagctgg ggctccaccg cggtgacggc cgctctagaa 60
ctagtggatc ccccggtcg caggaattcg gcacgaggac tagtccgagt tttttttttt 120
ttttttttta aaacaaatac ttttattgca catttataaa atctgcatag ttgtatcaat 180
ttttttccct ttcattgattc cattaatctt taaaatttgg ttaaaacaca atatccaatc 240
agaagccttt taaaaatgat caatgggaag tatttttctc tacatatata tatatatata 300
gttttgcata tgtatgctgg tttttttttt tttttttttt gtacaaacc acatccctta 360
cttttaaggg caaaaaagaa ggcsgggtac gatgacttgt ctgcaatccc agactttggg 420
aggctgaggg aggcatag atcacttgag gccaggagtt 460

```

<210> 1471

<211> 2007

<212> DNA

<213> Homo sapiens

<400> 1471

```

tacattggaa caagaacaag aagcactagt taatcgcttc tggaaaagga tggataagct 60
tgaagctgaa aagcgaatcc tgcaggaaaa attagaccag cccgtctctg ctccaccatc 120
gcctagagat atctccatgg agattgattc tccagaaaat atgatgcgtc acatcagggt 180
tttaagaat gaagtggaa ggctgaagaa gcaactgaga gctgctcagt tacagcattc 240
agagaaaatg gcacagtatc tggaggagga acgtcacatg agagaagaga acttgagggt 300
ccaggaggaag ctgcagaggg agatggagag aagagaagcc ctytgtcgac agctctccga 360
gagtgaagtcc agcttagaaa tggacgacga aaggtatttt aatgagatgt ctgcacaagg 420
attaagacct cgcactgtgt ccagcccgat cccttacaca ccttctccga gttcaagcag 480
gcctatatac cctggtctat catatgcaag tcacacgggt ggtttcacgc caccaacttc 540
actgactaga gctggaatgt cttattacaa tccccgggt cttcacgtgc agcacatggg 600
aacatcccat ggtatcacia ggcccttcacc acggagaagc aacagtccctg acaaattcaa 660
acggccacag ccgcctccat ctcccaacac acagaccca gtccagccac ctccrctcc 720
acctccgcca cccatgcagc ccacgggtccc ctcagcagcc acctcgcagc ctactccttc 780
gcaacattcg gcgcacmct cctcccagcc ttaatgcatg agcttagtct gaatttcaag 840
wtgggactca tcmattggag ccgtctactc aaamgcaaag gcttccttct ctggcatatt 900
tggatatgac ttatttgac tgagggtatc taggcttcac tatccattgt gttgtaaatg 960
tttgtcagaa atgcagccag tgttgtgggt ctacaacact aaccagacga ctttttccat 1020
cagtgttwtc cttgaatctt catgtacgtc cattccctgg ctggaacctt cgctgtttgg 1080
tatttggtat ttcagcagca gtgtgcaatt tttgcttggc ccagagcttc attctcctgg 1140
cttttaggtt tgtaaaagaa aaagggatat cttttttata tktttttcca tgaatctgca 1200
gaaaattact gagctgttgt taccctcctc tcattataat agtgtttacc aaacatacca 1260
ataattcagc actacaattc agacctttga aaatctggct ttcagtgtag aacagaaagt 1320
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tttacagggt attttcattg tgttattgac atccatgtct ctcgtaaaac agatggccca 1440
aagtaatgaa tcatgtggct gtaccttctc cacataaatg ggatggataa ttatcgtata 1500
ttaagatgtg attctctttt ttatccttaa tgttaatcta cttaacctgg cccctcttaa 1560
catgagtcga taaatgttgt cctactcacc ggtggtttca atggctaatt agaatgtgtt 1620
atttgatttc tgctgcagaa ggcagtgtga ttgtaacaaa aacaatgcgg cttccccctt 1680

```

914

```

tcgtacttca tttgtgttct cttaaaatag agtttgaaca aatattttta aggtgcaaaa 1740
taccattaga aaatactatt tgaaatggac attatcgcat tatcttggca taatggccag 1800
aaaatattgt attgcttggc agaaaagaaa ataaggtcta aaggaaagta gcacattagc 1860
attgatggct gttcatttca cccagtataa gcaagtgcag tgtacaaaga agtatattct 1920
gaatacatta tttccattca tttagcacia ataaatcatt tggtttctact ttgmagtggg 1980
aaaaaaaaa aaaaaaaaaa aaaaaaa 2007

```

<210> 1472

<211> 400

<212> DNA

<213> Homo sapiens

<400> 1472

```

acagagcaag actccatctc aaaaaaaaaa aaaaaagact taacagagca tttcacgggg 60
aagggccatg aggggaacatc accygggtga tggttaacatt ctgtatcttg ataaggattt 120
gagttataca agtatataca tctgtcaaaa ttcaaagaat gtacactcaa gatctgtgca 180
tttcattata tgtaaagtgt acmttaaaat gttgtaaaca aatattgaac aaatatacgc 240
atgctaaagt atttaagagg aagtactggt gtctgcaaaa caaaaatttt ttttccattt 300
tctgtggtaa aatatacata atataaatgt attattttta gtgtacaatt cagtggcatt 360
aaatacactc agaaagttrm aaamaaaaaa aaaaaatttc 400

```

<210> 1473

<211> 1278

<212> DNA

<213> Homo sapiens

<400> 1473

```

tcgacccacg cgtccgcacg gagcacctgg agtggtctgt ctggaatgct ggctggggagc 60
cttctcctgg catttgaacg aggggcagct gtgtcctctg tttgccgtgt aaagaaaaga 120
ggacagagct cagaggagat gaaccccagc agaaaggggt gcttgaccag caggagagaa 180
gataaccaag aggggtctgt ggtgtctctt ctgagctaca ccagtttcca gggtacctgg 240
gaccatggat aactctcaga tcagcaactt gtcagttgat ttccaagctg ctgttggctg 300
gactcagact cagcaggag cactggggcg agcctgtgct tgcgggctgg actccggccc 360
atctcgctga ttactcttgc ttttgctccc cagtgtgtcc tcaagaggtc agagcctgct 420
tgttgtttct tcatgaccac gggaggaggg gcaccaacat gaggggtgcta gcatctcccc 480
agtgggtggc tcccagggct ggggaaaccc tgggggaggg gttgggacag ggacctctgt 540
cgcttgctgc cactgcctgg gtcaactgcc tggcaaggct ggccgctcgt gctcagaaag 600
ctgaggcctt acctgccttc tctctcacc cagcggccat gtaaggacac atctgarttg 660
gcattctgtg tctgtctctg arctactcgc atgataagtc tttgttgtcc tgtgggatgt 720
caccggttca tgctgaagag aaattgtaaa ggactccttt gctgctcag gccccatggy 780
ctctgtcatg ttttgtcccc gtcccttttg garcacagca gcagtgggct ggctggactg 840
tgcaggcgag gttcaaggat gargtacagt tgtgtgaaag gtgagcctgc tggaccgggg 900
agctttcctc aaggcctccg cctggctatg atggcgtag ggttgagggg aagcttcctc 960
caaaatgcac agtacttgga tgtcaagatg atgttgctgc tctcaggatg agtcactctc 1020
caccactgac ttcttttgat gttctgagct cagcctggag tctgamctgg gactatagca 1080
cttgttctcc caaggtaagg ctggcggsca aaccagtgct gcacacctga acctgtcctc 1140
tggcagarat gaagggcgct atgtttcgta gccactcaac acccatggac aatttggctc 1200
cttgtwaaga ctwakgcacg cctttgaact gacttacttg aaatataatt gskccyattt 1260
tgctccaaag aacaatgg 1278

```

<210> 1474

915

<211> 475

<212> DNA

<213> Homo sapiens

<400> 1474

```
gaattcggca cgagaaagggc aggacctcga ggcgcggccg cgcgaggtga ccggagtcac 60
agttcccgcga ggcggcgaca gcagagcgcc cactgcctcc agcagattaa tattaagatt 120
ggaagtttgt gtcttttctt ggatattgga aattgaatgt aatggcaaca gaatttataa 180
agagttgctg tggaggatgt ttctatggtg aaacagaara acacaacttt tctgtggaaa 240
gagattttta agcagcagtc ccaaatagtc aaaatgctac gtatctctgt acctccattg 300
acttctgttt ctgtaaagcc tcagcttggtg tgtactgagg attatttgct ttccaaatta 360
ccatctgatg gcaaagaagt accatttggtg gtgcgcaagt ttaagttatc ttacattcaa 420
cccaggacac aagaaactcc ttcacatctg gaagaacttg aaggatctgc aggag 475
```

<210> 1475

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<400> 1475

```
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tgcgttctgc agaccagaag ggctttgtct ggcgattgct gaatgctcaa tagcagcctg 120
ctgggagggg agtcgaaggg agaaatagga cagaaagaga gacctgacct ctccctggag 180
gctctcagtg tcggccgagg cccttggtct tgctctaggg ctctgcattc ccgagagctg 240
ctgtatgccg gggattggct tccaagcctg cctgagcttc tccagtctcc cgggcatcgc 300
catgcggtgg gaggggtgagc cttcctctcc tgctgaaatt ccggcgggctt ggcaaccggc 360
cgggggggtct tggattcctc ggggagacac cactgatgct ttgtgggttc acgtaatttg 420
gatttaaaan ttgaaggcgt ca 442
```

<210> 1476

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

916

<222> (931)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (973)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (995)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1004)

<223> n equals a,t,g, or c

<400> 1476

```

tccggtaccg gtccggaatt cccgggtcga cccacgcgtt tntaaaaacc acgtttcttt 60
gttgagctgt gtcttgaagg caaaagaaaa aaaatttcta cagtagtctt tcttgtttct 120
agttgagctg cgtgcgtgaa tgcttatttt cttttgttta tgataatttc acttaacttt 180
aaagacatat ttgcacaaaa cttttgttta aagatctgca atattatata tataaatata 240
tataagataa gagaaactgt atgtgcgagg gcaggagtat ttttgattta gaagaggcct 300
attaaaaaaaa aaagttgttt tctgaactag aagaggaaaa aaatggcaat ttttgagtgc 360
caagtcagaa agtgtgtatt accttgtaaa gaaaaaaaaatt acaaagcagg ggttttagagt 420
tatttatata aatgttgaga ttttgacta ttttttaata taaatatgtc agtgcttgct 480
tgatggaaac ttctcttggtg tctgttgaga ctttaaggga gaaatgtcgg aatttcagag 540
tcgcctgacg gcagaggggtg agccccctg gagtctgcag agaggccttg gccaggagcg 600
gcgggctttc ccgagggggcc actgtccctg cagagtggat gcttctgcct agtgacaggt 660
tatcaccacg ttatatattc cctaccgaag gagacacctt ttccccctg acccagaaca 720
gccttttaat cacaagcaaa ataggaaagt taaccacgga ggcaccgagt tccaggtagt 780
ggttttgcct ttcccaaaaa tgaaaataaa ctgttaccga aggaattagt ttttctctt 840
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ggctggtgcc cgggctacca gggacatgcc ngagggtcgc atgacttgtc tctgcagggc 960
gctttggtgg tgnttaactg gctaaagggt accgntgaag gcangtgcgg taactggcc 1019

```

<210> 1477

<211> 857

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (820)

<223> n equals a,t,g, or c

<400> 1477

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tgaaatgccg cttattcagt ttttaagtact gacctgctaa gtaactagta attccagact 60
ccctagaaga ggttggttctc tttttcccta atcataatcc ccacttgcta aaaccaaatt 120
catctaagcc atctattttc tgcaggatac atgtaaatct tagaggatta tcccagcact 180

```

917

```

gagcagatga tagatcaaac agatctctct tcatagttct gtggatgaaa aaacagtatt 240
tacacataat ctgtattatt cacattgcc aagctaaatt tckggaycat tgktacycyt 300
cygttttttg tatagttgta acagagtaty ctttaaatac atttttatgg catgcctatt 360
atgtacaaaa caccacaaag cttatgtagg taagtgatac ataggcccct acctcaagga 420
gcttactgtc tgaacagggg agaggtgtgg tgaaggatgg acaaattata tgtatttgta 480
agagtatata atttatggta aaacaatttc aagaaaggat taaaccatgt gttataatgt 540
ttcaaagaag ggagagatta taaaccactg gggtaaaagg ataggcttct tggaggaagt 600
gacatttgag atatatcttg gatgaccgat cagattccca tagaagaggt ctgagaaaag 660
ggcattccat gtagaaggaa tgacaagagc aaagacatag agagttaatt agaaaatgct 720
tgtcatttat ttcataattc gggggaaatt attttgtttt ataacacttt taaaaaatat 780
ttagctttgc agttcctgac cccttaatgc ctgacccttn caagcaacca aagaaccagc 840
ttaatcctat tggttcc 857

```

<210> 1478

<211> 2771

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<400> 1478

```

nttgaggttc tgggggtcct ggagacttac cattgagcca tgcaatctgg gaagcacagg 60
aataagtaga cactttgaaa atggatttga atgttctcat cccttttgca gcttttcttt 120
ttggctctct catgtccttg gcttgctcct ctattctacc tctctttctc cagcaataat 180
atgcaaatga agacatgtat ccataagaag gagtgtctct catcaactaa tagagcacct 240
accacagtgt catacctggg agaggtgagc aattcatatt caaagggtgc aaagtgtttg 300
taatataatc atgaggctgg aakkaagaag aattaaaaat ttgtcctaata tacaatgaga 360
accattctag gtagtgatct tggagcacac atgaataact ttctgaagggt gcaaccaaata 420
ccatttttat ttctgcctgg cttggtcacc tctgtaaaagg tttaacttag tgttgcaag 480
taacagttac tgaaagagct gagaaaaaga acaatgaaca gcaacgatct tgactgtgca 540
actcagacat tcctgcagaa aagacatatg ttgctttaca agaaggccaa agaactatgg 600
ggccttccca gcatgtgact gttcattgca tagaatgaat taaatatcca gttacttgaa 660
tgggtataac gcatgaatat ttgtgtgtct gtgtgtgtgt ctgagttgtg tgattttatt 720
aggggcatct gccaatctct tcaactgtgt tcttctctct actttgctg ttcactatct 780
aaggaggcta gatccttcgc tgacttcacc attcctcaaa cctgtaagtt tctcacttct 840
tccaaattgg ctttggctct ttcttcaacc ttccattca agagcaatct ttgctaagga 900
gtaagtgaat gtgaagagta ccaactacaa caattctaca gataattagt ggattgtgtt 960
gtttgttgag agtgaagggt tcttggcatc tgggtgctga ttaaggcttg agtattaagt 1020
tctcagcata tctctctatt gtcttgactt gagtttgctg cattttctat gtgctgttcg 1080
tgacttgagg aacttaaagt aatcgagcta tgccaacttg ggggtggtaac agagtacttc 1140
ccaccacagt gttgaaaggg agagcaaagt cttatggata aacctcctt tcttttgggg 1200
acacatggct ctcacttgag aagctcacct gtgctgaatg tccacatggg cactaaacat 1260
gttatcetta aacccccgt atgcctgagt tgaaagggtc ctctcttatt aggttttcat 1320
gggaacatga ggcagcaaat ctattgctaa gactttacca ggctcaaata atctgaggct 1380
gatagatatt tgacttggtg agacttaagt aaggctctgg ctcccagggg cataascaac 1440
agtttcttga atgtgccatc tgaraaggga gaccaggtt rtgagttttc ctttgaacac 1500
attggtcttt tctcaaagt cctgccttgc tagactgtta gctctttgag gacagggact 1560
atgtcttatc aatcactatt attttctgt tacctagcat gggacaagta cacaacacat 1620

```

918

```

atttggttcaa tgaatgaatg aatgtcttct aaaagactcc tctgattggg agaccatata 1680
tataattggg atgtgaatca tttcttcagt ggaataagag cacaacggca caaccttcaa 1740
ggacatatata tctactatga acattttact gtgagactct ttattttgcc ttctacttgc 1800
gctgaaatga aaccaaaca ggccgttggg ttccacaagt caatatatgt tggatgagga 1860
ttctgttgcc ttattgggaa ctgtgagact tatctggtat gagaagccag taataaacct 1920
ttgacctgtt ttaaccaatg aagattatga atatgttaat atgatgtaaa ttgctattta 1980
agtgtaaagc agttctaagt tttagtattt gggggattgg tttttattat ttttttcctt 2040
tttgaaaaat actgagggat cttttgataa agttagtaat gcatgttaga ttttagtttt 2100
gcaagcatgt tgtttttcaa atatatcaag tatagaaaaa ggtaaaacag ttaagaagga 2160
aggcaattat attattcttc tgtagttaag caaacacttg ttgagtgcct gctatgtgca 2220
cggcatgggc ccatatgtgt gaggagcttg tctaattatg taggaagcaa tagatctcgg 2280
tagttacgta ttgggcagat acttactgta tgaatgaaag aacatcacag taatcacaat 2340
atcagagctg aattatcctc agtgtagctt cttggaattc agtttctgga actagagata 2400
gagcatttat taaaaaaaaa tcctgttgag actgtgtctt atgaacctct gaaacgtaca 2460
agccttcaca agtttaacta aattgggatt aatctttctg tagttatctg cataattctt 2520
gtttttcttt ccatctggct cctgggttga caatttggg aaacaactct attgctacta 2580
tttaaaaaaa atcagaaatc tttcccttta agctatgtta aattcaaact attcctgcta 2640
ttcctgtttt gtcaaagaat tatatttttc aaaatatgtt tatttgtttg atgggtccca 2700
ggaaacacta ataaaaacca cagagaccag cctggaaaaa aaaaaaaaaa aaaaaaaaaa 2760
aaaaaaaaaa a

```

<210> 1479

<211> 2065

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1984)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2040)

<223> n equals a,t,g, or c

<400> 1479

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gcacaatgga tgaagaagag aaggatgatg gtgaagctaa agaaatttct acacctaccc 60
attgggtctaa acttgatcca aagacaatga aggtaaatga cctccgaaaa gaattagaaa 120
gtcgaagctct tagttccaaa ggattaaaat ccagttaat agcccgattg acaaaacagc 180
ttaaagtaga ggaacaaaaa gaagaacaga aggagttaga gaaatctgaa aaagaagagg 240
atgaggatga tgataggaaa tctgaagacg ataaagagga agaagaaagg aaacgtcaag 300
aggaaataga acgccagcgt cgagaaagaa gatatatatt gcctgatgaa ccggccatca 360
ttgtacatcc aaattgggct gcaaaaagtg gcaagtttga ttgtagcatc atgtctttga 420
gtgtcctatt ggactacaga ttagaggata ataaagaaca ttcatttgag gtttcattgt 480
ttgcggaact tttcaacgaa atgcttcaaa gagatttttg tgtccgtata tacaaatcat 540
tactgtctct tcctgagaaa gaggacaaaa aagaaaagga taaaaaaagc aaaaaagatg 600
agagaaaaga taaaaaagaa gaaagagatg atgaaactga tgaacaaaaa ccaaacgga 660
gaaaatcagg cgatgataaa gataaaaaag aagatagaga tgaaaggaag aaagaagata 720
aaagaaaaga tgattctaaa gatgatgatg aaactgaaga agataacaat caagatgaat 780
atgaccctat ggaagcagaa gaagctgagg atgaagaaga tgatagggat gaggaagaaa 840

```


919

```

tgaccaaacg agatgacaaa agagatatca acagatactg caaggagagg ccctctaaag 900
ataaggaaaa agaaaagact caaatgatca caattaacag agatctgtta atggcttttg 960
kttattttga tcaaagtcac tgtgggtacc ttcttgaaaa ggatttggaa gaaatacttt 1020
atactcttgg actacatctt tctcgggctc aggtaaagaa gcttcttaac aaagtagtgc 1080
tccgtgaatc ttgcttttac cggaaattaa cagacacctc aaaagatgaa gagaaccatg 1140
aagagtctga gtcattgcag gaagatatgc taggaaacag attattactt ccaacaccaa 1200
cagtaaagca ggaatcaaag gatgtggaag aaaatgttgg cctcattgtg tacaatgggtg 1260
caatggtaga tgtaggaagc ctcttgcaaa aattggaaaa gagcgaaaaa gtaagagctg 1320
aggtagaaca gaagctgcag ttactagaag aaaaaacaga tgaagatgaa aaaaccatat 1380
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ttagtcagtt acaagaaaac ttaaagatgt cggaaaacat gaatttaca tttgaaaacc 1500
aatgaataa gacaatcagr aacttwtcta cggtaatgga tgaaatccac actgttctca 1560
agaaggataa tgtaaagaat gaagacaaag atcaaaaatc caaggagaat ggtgccagtg 1620
tatgataaaa tccatgtagt gatgaggaat ggtgttaaat aatgtaatat ataaaaatca 1680
tgatataaga atgtttgaag gtgatgcag tttgatttta gtagtataaa tgtatttttag 1740
ttcaaagat gtataaagtt ttatgaatgt gagtttctgc ttttgaaaat tgcttgtaat 1800
tcctagcctt caaattatta aacactcctt gagtgaaata attttgcatt gcaaagtgtt 1860
ttaggatgaa ctttgktata gttttaactc caataamgtt catcagttta attgactgta 1920
gtatttaatt accaaatttc ttttattaaa atgcctagaa atttttaatt tatagaatta 1980
ttanggttta aaaattttta gtctctgggt aaaattcagt caaaatcata aaatacatgn 2040
gcttaaattt tgcaggtttt tgaac 2065

```

<210> 1480

<211> 720

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (659)

<223> n equals a,t,g, or c

<400> 1480

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gaaaaacaag ctgagatcct ggaatatgca tatcatggac agatcgccat tgttgccccc 60
gaagcccttc tagcagggca caattatacg ttgaagatag agtactcggc aaatatatct 120
agttcttatt atgggtttta tggcttctcc tacacagatg aaagtaatga gaaaaagtac 180

```

920

```

tttgcagcaa ctcagtttga acccctggca gcaagatctg cttttccttg ttttgatgaa 240
ccagcattta aagccacttt tatcatcaag atcataaggg atgagcaata caccgcttta 300
tcaaatatgc ctaagaagtc atcagtcgtt ctagatgatg gacttggttca ggatgagttt 360
tctgagagtg tgaagatgag cacttacttg gttgctttca ttgtgggaga gatgaagaac 420
ctgagtcagg acgtaaattg aaccctgggt tctatatatg ctgtaccaga aaagattggt 480
caagttcatt atgccttggg aacaactgtg aagcttcttg agttttttca aaactacttt 540
gaaattcagt acccacttaa gaaattggat ttggtggcta ttcctgactt tgaagcaagg 600
ancaatggaa aattgggntt ttgctcacct tccgaaaagg anacacttct gtttgacant 660
tacacttctt ccatggcgga taaaaaagct gggtgactaa aatcatttgc tcattgaact 720

```

<210> 1481

<211> 1167

<212> DNA

<213> Homo sapiens

<400> 1481

```

cggcgagcgac agcggcgagcg tcagcgtcag cggcgctgag ttttgtctcc cgggcccgtct 60
gggcgcgcgc ggggtgtccca gaatgaaata tgactgagga ctctcagaga aactttcgtt 120
cagtatatata tgagaaagtg gggtttcgtg gagttgaaga aaagaaatca ttagaaattc 180
tcctaaaaga tgaccgtctg gatactgaga aactttgtac ttttagtcag aggttccctc 240
tcccgcccat gtaccgtgca ttggtatgga aggtgcttct aggaatcttg cctccacacc 300
acgagtccca tgccaaggtg atgatgtatc gtaaggagca gtacttggat gtccttcacg 360
ccctgaaagt cgttcgcttt gttagtgatg ccacacctca ggctgaagtc tatctccgca 420
tgtatcagct ggagtctggg aagttacctc gaagtccttc ttttccactg gagccagatg 480
atgaagtgtt tcttgccata gctaaagcca tggaggaaat ggtggaagat agtgtcgact 540
gttactggat caccgcacgc tttgtgaacc aattaaatac caagtaccgg gattccttgc 600
cccagttgcc aaaagcggtt gaacaatact tgaatctgga agatggcaga ctgctgactc 660
atctgaggat gtgttccgcg gcgcccacaa ttccttatga tctctgggtc aagaggtgct 720
ttgcgggatg tttgcctgaa tccagtttac agaggggttg ggataaagtt gtgagtggat 780
cctgtaagat cctagttttt gtagctgtcg aaattttatt aacctttaaa ataaaagtta 840
tggcactgaa cagtgcagag aagataacaa agtttctgga aaatattccc caggacagct 900
cagacgcgat cgtgagcaag gccattgact tgtggcacia acactgtggg accccggtcc 960
attcaagctg aacgcacccg ctggttgtgg accgtctgcc aggcaccaca gtgagcattg 1020
tgttcttggc atgtgatctg ggaaactgat tgaataatac acttttcttg ctttggtgct 1080
caaagtgggt tttttcccc aataaaatta tttaattgaa atgcctggtg ttgctgtggt 1140
ggcgagcagc atcttgcagt tacatag 1167

```

<210> 1482

<211> 2129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

921

<400> 1482

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cgaanttcgg agcgnccggt actggtgaaa gcgagacatc accagataga gataagaaaa 60
aagagcagtc agaagtatct gtttctccta gagcttcaaa acatcattat tcaagatcac 120
gatcaaggtc aagagaaaaga aaacgaaaagt cagataatga aggaagaaaa cacaggagcc 180
ggagcagaag caaagaggga agaagacatg aatccaaaga taaatcctct aagaaacata 240
agtctgagga acataatgac aaagaacatt cttctgataa aggaagagag cgactaaatt 300
catctgaaaa tggtagaggac aggcacaaac gcaaagaaaag aaagtcatca agaggcagaa 360
gtcactcaag atctaggtct cgtgaaagac gccatcgtag tagaagcagg gagcgggaaga 420
agtctcgatc caggagtagg gagcgggaaga aatcgagatc cagaagcaga gagaggaaga 480
aatcgagatc cagaagcagg gaaagaaaac ggcggatcag gtctcgttcc cgctcaagat 540
caagacacag gcataggact agaagcagga gtaggacaag gagtaggagt cgagatagaa 600
agaagagaaat tgaaaagccg agaagattta gcagaagttt aagccggact ccaagtccac 660
ctcccttcag aggcagaaac acagcaatgg atgcacagga agcttttagct agaaggttgg 720
aaagggcaaa gaaattacaa gaacagcgag aaaaggaaat gggtgaaaaa caaaaacaac 780
aagaaatagc tgcagcagct gcagctactg gaggttctgt tctcaatgtt gctgccctgt 840
tggcatcagg aacacaagta acacctcaga tagccatggc agctcagatg gcagccctgc 900
aagctaaagc tttggcagag acaggaatag ctgttcctag ctactataac ccagccgctg 960
ttaatccaat gaaatttgct gaacaagaga aaaaaaggaa aatgctttgg cagggcaaga 1020
aagaagggga caaatcccaa tctgctgaaa tatgggaaaa attgaatttt ggaaacaagg 1080
acaaaatgt caaatttagg aaattgatgg gtattaagag tgaagatgaa gctggatgta 1140
gtcagttga tgaagaaagt tacaagactc tgaagcagca ggaagaagta tttcgaaatt 1200
tagatgctca gtatgaaatg gcaagatcac aaaccacac acaaagagga atgggtttgg 1260
gtttcacatc ttcaatgcga ggaatggatg cagtttgaaa atgatcacac ttgtaaagtt 1320
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tagcttgcat gggtgtttgca ttgactttta tttattgaaa aatacaaatt tttgtaaata 1440
tcagatcagt gatactggtg ttagtgttgt aatcaggtta aaccacttc cattaaactt 1500
gacaggacta tagaaggata atatttttta gttcatgaat tctacttttc aaatatataa 1560
aagctgcagg tggggataaa atctcataca tggatttttt cgtgtccgct gtcttggtgta 1620
cttttgact taaccttgta cagttatttt catctcttga aacatgaaag aaatgttatg 1680
tagatgttct ttagaagatc tggccatttg gtacataatc cagcacagat aagctgggtg 1740
gtaatgataa taaaaatggg tttctcaaaa ctggtgttaa ttaagttac ctgggatgtt 1800
tctttgaatt tgttttatag tttctgtagc atttggaat tgctgttaga aaacactagc 1860
tagaaatccc ctccccacca ccttttttaa ggccagttaa ctatactaca gtcaataaccg 1920
tggtgagcaa aaatgtaaaa ggtggaagga gaaaacttat taaaatagta tgttttccta 1980
ttataaggga cagacttggg attcagatatt tgtcaaatat tacatgtgtt attcaggaga 2040
tagattaatg cattaaaggg atgtaagcac ttttatttta ataaagtgcc ttataacaaa 2100
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2129
```

<210> 1483

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 1483

```
ggtcgaattc egggtcgacc acgcgtccgt ttgcttgtna ctatttttca ttgaagcatg 60
```

922

```

cgcttaccta tgctgattct tactaaaagc ataggctggg gtattttattg gcgaaaggaa 120
atgtgtagtg tgggctggac tgttggtgga ggctggcctt ttagccctact tgctatacat 180
gctgccaatg gatttaagac ttgaaatgtt gaaagttgag tggaattatt tccttcctaa 240
aacattttatt tacagtactc ctctctaccc ctaagggttg gctctgcctc agaggagtga 300
gttttttttt ttttttctat aaagtttaca ttgtcttact atttattgar tgaatyctcg 360
gtcattgcct atgcaaatat aakaaatctg gctttaaata ttagtcagtt tcatggctat 420
gactagattg ktttcttgka taactaaata cctgkataaa atgaactaat gttttctctc 480
ccctccctac cccttcctaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 533

```

<210> 1484

<211> 901

<212> DNA

<213> Homo sapiens

<400> 1484

```

tcgaccacag cgtccgaaac aaaacaaaaac aaaacaaaaa cttgaaagac tgcccaagaa 60
aggtgaaggt tagatctcag gggatgatct tgaagcaact gagacagacc tagaaacttg 120
cctcatatga tacaagaaga cccagcttct ttgtctctac cctgtaggca ctgggtagac 180
aggtaggtga tattttactt cacaaacaag ggaactaaaa gtatgaacat ttctctgttc 240
ctcattatct ctgccctaaa atatttttggc tatctagccc cagttagagc ggactggcac 300
tgtctggtac aggaggtatg cagcagatgt tctgcatctg agctccatta tgactgtccc 360
ccaacaaatc atccccccagc cagcccaagg gaacgtggaa ttcagagggg aactgttcta 420
accaggagca gccaataga tccaggccag agaaacccat atccaggcac tttatctttg 480
tcctaaaaatg aacctagcta acctcttcag gctatccaaa accctgacca ctccacatag 540
agagacattt gctagcctta catgtcactt tccactgtac acataccaat gacacctgaa 600
ccagatataa agacagagacc acaaagggtc tgctgagcct aaggatctgc tcacctattt 660
ctgatcccga atgcccctgg gacatcttcc agaatgtgtg cctccaaata aagtctagaa 720
aattggagga aaattttaat gcagatgaat cgagaaggaa taaaagccat tagaaattct 780
gggaaaacaa gaaatataga agaaagtcac ggggctgggt gtggtagctc acgcctgtaa 840
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a 901

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<210> 1485

<211> 782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (691)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

923

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (780)

<223> n equals a,t,g, or c

<400> 1485

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ccccccagcc tcactaaagg gaacaaaagc tgggtgctcca ccgcggtggc ggccgctcta 60
gaactagtgg atcccccggg ctgcaggaat tcggcacgtt ttccccgtt ccttggagtc 120
agtatTTTTga gtccatggaa gatgtagaag tagagaattg cttggaccgg ggaggcaaag 180
gttgcaagtga gtggagatca tgcattccac tgcactccag cctgggagac aagagcaaga 240
ttctgtctca aacaaaacaa aacaaaacaa acaaaaaact tttaaccagg atttttttaa 300
aaaatagtaa actctacctt acacagtatt tctcatttta accatgtgga aatgaacagt 360
tcagtggcat taattacatt cacaaggctg tggaccacac cactatctat accccaactt 420
tttcatcatc cccagcaaga actctgtacc cattaagcaa taactcctgc ctgcgtcccc 480
aagctctatt ctgcttttgg tctctgaatt tgcctatttt aggtagctca taggtggaat 540
cctacaatat ttattttgtg tctggcttat ttcgttttagc ataatgcttt caagtccatc 600
catgttgtaa gtgtgtatca aaattctgtt ccattttatg gctgaatatt ttattaaatg 660
catattccat attttgggta gccattctcc ngaacggaca tctgggggtt gcttccacct 720
tttgacgaat ggtgaataaa gccggnatga ccatgggtgt anagccaatc antccattcn 780
tt                                                                 782

```

<210> 1486

<211> 891

<212> DNA

<213> Homo sapiens

<400> 1486

```

gaattcggca cgagccttga gctagcattt cattatgacc gtgatttttc cccgcaccac 60
tttccagcct tgtggtccac aattccactg ggccttaagt atgtactgaa ctttcttggc 120
tccctcattt tgctctgctt gtgcaatttt ttccaccctc catctctgtc aaacgtaagc 180
cttccctgacc tctaagacct acctttgtca tgtaccttta ccttcaggca aggagcaatc 240
tcttctcttc ctcttctacc ttgctgtagc ttctcccca ggatttatca cattctgcct 300
tgaatcatag ggaacagcat gtgtagtggg atgaacacag gcctctgaat ccaagatacg 360
agttttaaata ccagcttttg aggtggttac ttaaagtctc agtgccttca ttcttctycc 420
tatataaagt agatattaca atatctaact tacagagtca ttgggagcta tacatgcagc 480
gattgggtaa agcacctggc acatggcaag cgattagcaa atgctgggta cttctacttc 540
tttctcttcc cttttcccag tctatcataa tttccttgar arcaggcacc atgtcttatt 600
tacccttgta tttcccacag tacttcccat agtgarttac ccttagtaaa tacycagtaa 660
gttgaattga atttaaatta mctgtaagtc ttaaaatgtg ggattaaatt aagaatatat 720
tgctctggaa ataccgaagt gtctattgat ggatgaatgg ataaacaaaa tgtgggtatac 780
acataatgga atattattca gccttaaaaa ggaatgaaat tctgacatgt gctacaatat 840
gatgaacctg gaagacatta tatgtgaaat aagccagaca gaaaaggaca a 891

```

<210> 1487

<211> 1181

924

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (617)

<223> n equals a,t,g, or c

<400> 1487

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gcgaaaaaata ccgtttggga ccaggctggc ctagaccag ggatgagaat gcaccctaaa 60
ataaatatac gggaagcagc agagggttc cctgtctagt gtgtgatcct aactaaaggc 120
agctctcttg gacagccttc ccctggatta ggtcacatac acctggtggc caagcctctg 180
ctgggtccca aatacacacc cgagtcctgc caaagaaagg agatttttaa aaagcacaga 240
caaattgtat gcaagtggaa aatacccata ggcttagaca gctgtggagg gaagacctcg 300
tgggtacctg gaggctgcca gagctgggag ctctgcaggt atgagtcagg gaaggctcag 360
agacaagcag aatctctcta tggagacaac ttgcagtgcc ttttaggttt tccaaataac 420
ctcggagttc agagcattgg gtttttttct cccctcccca ccccagaaa aataattaga 480
aaaatgttta ggagaaagga aaagaattag atgcatcaga ataccagcta taagccaaca 540
ctgtttccag aaactcaaga aaaagctcaa acagaagaca gttcccctga gaggctggag 600
gcgttgggtg tgaaggnaat ttctctagct aaggggcact gggccttgct gcaccttggg 660
gctgaccttt ttgcaaaaac acccaccctt gccctcctgg catactcaac agcaacgcca 720
gctttctgga cccttggaag gatgttagct caaacacca ctttttccag atcttcctct 780
tgctcttcac tgaggaattt gtaattctga ggctagcgat gccsactcgg atattccgca 840
gcccaggtgt ttagattaga atttgtccag cggtaatcct gatgctggaa accaacaac 900
atattggcctc atattcaccc atttaaaaac tagagcccct ggcagggtccc cttaggggcca 960
tgtgttcacg gaataataagc caagtttgcc ytargetkgt tcatggaata taagccaagt 1020
ttacctctcc ccattttctg ccctggccca ctcccaactc acctccacct yattgccmng 1080
aagggatcaa aakgcctcca tgccarttgt taakggctac atatttgccc ttccaagggg 1140
tatttgcatt tattaggaac aggccttaaa ttcaaggaaa a 1181
```

<210> 1488

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

925

<221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (505)
 <223> n equals a,t,g, or c

<400> 1488
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 gaaaacaagt tggtgctgga gcagttggag attcagcaaa ggaaagccaa ggacagccac 180
 caggagcgcc tccaagaagt ttctaagctg actaaacaac taatgctcct ggaggcaaaa 240
 acccacggcc aggaaaagga gctggcggag aacagggaac agctggagat tttacgtgcc 300
 aaatgccaaag aactcaaaac acactcggat ggcaaaatcg cagtgggaagt tcataaatca 360
 attgtgaatg aattaaaaaag ccaattacag aaggaagaag anaaagaaaag ggctgagatg 420
 gaggagttga tggagaagct gacagtccctg caagcgcgaga agaagagcct gctgttanag 480
 aanaacattt tgacagagca naacn 505

<210> 1489
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 1489
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 gcggctggtg ggtggtgctg ctgggcctacg gcaccttctt gctcttcgcc gtcttctgga 360
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 ccctttgtga acggacgtct cagggtgctg gtgccccttg ggtgtgggtg gcctcaaagg 540
 aggccctgtc ccagccaccc acccccact cccaggactt gcggtmtgag ccttttttga 600
 taattaataa atatttttcm cagcaccaaa aaaaaaaaaa aaaaaaaaaa c 651

<210> 1490
 <211> 2968
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2961)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2964)

926

<223> n equals a,t,g, or c

<400> 1490

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ctacccccctg tctccccac aaaggacacc ggctgggatt cggtatcgaa tcgcagttat 180
cgcagacctg gacacagagt caagggccca agaggaaaac acctggttca gttacctgaa 240
aaagggttac ctgacctgt cagacagtgg ggacaagggt gccgtggaat gggacaaaga 300
ccatggggtc ctggagtccc acctggcgga gaaggggaga ggcatggagc tatccgacct 360
gattgttttc aatgggaaac tctactccgt ggatgaccgg acgggggtcg tctaccagat 420
cgaaggcagc aaagccgtgc cctgggtgat tctktccgac ggcgacggca ccgtggagaa 480
aggcttcaag gccgaatggc tggcagtga ggacgagcgt ctgtacgtgg gggcctggg 540
caaggagtgg acgaccacta cgggtgatgt ggtgaacgag aaccggaggt ggggtgaagg 600
ggtgggtctc aagggcagcg tggaccacga gaactgggtg tccaactaca acgccctgcg 660
ggctgctgcc ggcatccagc cgccaggcta cctcatccat gagtctgcct gctggagtga 720
cacgtgcag cgctggttct tctgcccgc cgcgccagc caggagcgct acagcgagaa 780
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gtgatttgcg attactttta agctcacct tttcttccc ctctctgttc gctgctgtca 2820
gcataatgat tgtgttcctt ccctatggga tccatctgtt ttgtaaaaa taaagcgtct 2880

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927

gagggagtgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2940
 aaaaacaaaa aaaaaaaaaa nagnagag 2968

<210> 1491

<211> 529

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<400> 1491

atctttaata ccaggaaatt ttagaaatac agtgaaacac agatctttta aataaatatt 60
 tccccatttg aattgttccc tagagtttac acagttgtac cttattacca gtttaaattgg 120
 atatctcagt taataatttt caatagttaa actatcaa atcagagatt tacttccttt 180
 tagttactat gaaaagcaca ttacttttgg agagcaactg taatacacct aaaattagag 240
 caaccaaagg catgtatgga gcatttttta atttaaaaaa ttgcattttg tttctcatac 300
 cttattttaa acattaagaa gtaaagtgtc ttagtttttg agtacatttt tatatgaata 360
 ggaaacatgc tgnntttcata atccagkctt ttgatgtgtg tgaaatgaat ttgtgtggag 420
 cgttatgtga atttttatga acttatcttt tattggtgat ctanaaatgc ttgggatacc 480
 taanaattcc agacctcagt ttcttatggg ggataacaat ggatttggn 529

<210> 1492

<211> 1225

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 1492

gtgcactcta acgatctctt tgccatcttg ttttaacttg acagttctca gacatagana 60

928

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aaaaaggttaa ctcacatgcacg tactacacctt tttctctatg tctgagaact gtcagattaa 120
aacaagatgg caaagagatc gttagagtgc acaacaaaat cactatccca ttagacacat 180
catcaaaagc ttatTTTTat tcttgcaactg gaaggaatcg taagtcaact gtttcttgac 240
catggcagtg ttctggctcc aaatggtagt gattccaaat aatgggtctg ttaacacctt 300
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cagcttcttg tctctgtttt ggattactgg aatacccatg ggccctctca agagtgtggt 420
acttctagga cattaagatg attgtcagta cattaaactt ttcaatccca ttatgcaatc 480
ttgtttgtaa atgtaaactt ctaaaaatat ggtaataaac attcaacctg tttattacaa 540
cttaaaagga acttcagtga atttgttttt attttttaac aagatttgtg aactgaatat 600
catgaaccat gttttgatac ccctttttca cgttgtgcca acggaatagg gtgtttgata 660
tttcttcata tgttaaggag atgcttcaaa atgtcaattg ctttaaaactt aaattacctc 720
tcaagagacc aaggtagatt tacctcattg tgtatataat gtttaatat tgtcagagca 780
ttctccaggt ttgcagtttt atttctataa agtatgggta ttatgttgct cagttactca 840
aatggtactg tattgtttat atttgtacct caaataacat cgtctgtact ttctgttttc 900
tgtattgtat ttgtgcagga ttcttttaggc tttatcagtg taatctctgc cttttaagat 960
atgtacagaa aatgtccata taaatttcca ttgaagtcga atgatactga gaagcctgta 1020
aagaggagaa aaaaacataa gctgtgtttc ccataagtt tttttaaat gtatattgta 1080
ttttagtaaa tattccaaaa gaatgtaaat aggaaataga agagtgatgc ttatgttaag 1140
tcctaacact acagtagaag aatggaagca gtgcaaataa attacatTTT tccccaaaaa 1200
aaaaaaaaa aaaaaaaggc cggcc 1225

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<210> 1493

<211> 2298

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2291)

<223> n equals a,t,g, or c

<400> 1493

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gaattcggca cgagccactg ggacatgtcg ctgccgctca tctgtactct gagcactatc 60
tccatcatcc tcctagcggc catgatcacc atcgccgtca agtgcaagcg cgagaacaag 120
gagatccgca cttacaactg ccgcatcgcc gagtacagcc acccgagct ggggtggggc 180
aagggcaaga agaagaagat caacaaaaat gatatcatgc tgggtgcagag cgaagtggag 240
gagaggaacg ccatgaacgt catgaacgtg gtgagcagcc cctccctggc cacctcccc 300
atgtacttcg actaccagac ccgctgccc ctcagctcgc cccggtcgga ggtgatgtat 360
ctcaaacagg cctccaacaa cctgactgtc cctcaggggc acgcgggctg ccacaccagc 420
ttcaccggac aagggactaa tgcaagcgag acccctgcca ctcggatgtc cataattcag 480
acagacaatt ttcccgagca gcccaattac atgggcagca ggcagcagtt tgttcaaagt 540
akctccacgt ttaaggaccc agaaagacca gcctgagaga cagtgggcac ggggacagt 600
atcaggctga cagtgaacaa gacactaaca aaggctcctg ctgtgacatg tctgttaggg 660
aggcactcaa gatgaaaact acttcaacta aaagccaacc acttgaacaa gaaccagaag 720
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aaccttatTTT aaaagccaaa cgtgccctga gccctctcct ccaagaggtc ccctcagcat 1020
caagcagccc aaccaaggcg tgcacgagc cttgcacctc aacaaaaggc tccctggatg 1080
gctgtgaagc aaaaccagga gccctggctg aagcaagcag tcagtacttg cccactgaca 1140

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929

```

gtcaatatct gtcacctagt aagcaaccaa gagaccctcc cttcatggct tccgatcaga 1200
tggcaagggt ctttgcagat gtgcattcca gagccagccg ggattccagt gagatgggtg 1260
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gaacattcca tatcattagt cgaaaacaaa aacaaaaaaaa aaaccttygg tcatttgtaa 2040
kacatctcat gtcataataa agttaaatgt aaaaagatac agtccatttt gtcctgcaca 2100
cacgtagact aattcacgct attaaagaag aagaaaactt aaagatttaa aatgcctatt 2160
tagcatttta gtgtccaaca aagatttaaa caatgatgaa tatgttttaa atttgacata 2220
gaaaagttct aaaaaatagt taccattgag tggttaagatt cagagaaaat taacttgatt 2280
aatatgtttt naaaaaaa 2298

```

<210> 1494

<211> 389

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<400> 1494

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aganacccan ccctcactaa agggaacaaa agctggagct ccaccgcggt gacgaccgct 60
ctagaactag tggatcccc gggctgcagg aattcggcac gngccccgc gagccgctcg 120
agaactccgc cagcgagtcg tctgacacgg agctgccaga gaaggagcgc ggcggcggaa 180
cccaaggggc ccgaggacag tggtgcgga ggcacgggct gcggcggcgc agacgacca 240
gccaagaaga agaagcagcg gcggcaacgt acgcacttca caakccagca gttgcaagag 300
ctagaggcca cgttccagag gaaccgctac cccgacatga gcatgaggga ggagatcgcc 360
gtgtggacca acctcaccga gccgcgcgt 389

```

<210> 1495

930

<211> 1400

<212> DNA

<213> Homo sapiens

<400> 1495

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accagcttgg agacaacatg tggttcttga caactctgct cctttgggtt ccagttgatg 120
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cggaaggaga acctctggcc ttgagggtgc atgcgtggaa ggataagctg gtgtacaatg 480
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agcactgcgt acaaacatcc aaaagttcaa caacaccaga actgtgtgtc tcatgggtatg 1320
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aaaaaaaaaa aaaaaaaaaa                                     1400
```

<210> 1496

<211> 1484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 1496

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caggcgacag agctgagcca agcgtttact gggcagctgt tacgctcaga ttccaaatga 60
waatgtttga gagcgctgac tctacagcca caagatctgg ccaggatctc tgggctgaaa 120
tttgttccct tctgccaaat cctgaacaag aagatgggtg caacaatgca ttctcagact 180
cctttgttga ttcttgcctt gaagggtgaag gccagaggga ggtggctgac tttgctgtcc 240
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agaagaagct aagaagaatc aaaggtttaa atcaggaagt gacttccaag gacatgcttc 360
gaactctggc ccaagccaag aaggaatgct gggatcggtt cctccaggag aagttagctt 420
cagagttctt tgtggatgga cttgattctg atgagagcac cttnggaaca tttcaagagg 480
tggctccagc cagataaagt agccgtcagc acagaggagg tccagtatct gattcctcca 540
gagtcacagg ttgagaagcc agtggccgag gacgagccag cagccgggga caagccagca 600
```

931

```

gcagcagaac agtaaattac acacacacac acacacacac acacgccgag cagctgtctc 660
gggtccagag cgagcagcgt ggagctcagt gacagcagca gggagaaatc cactgaagga 720
aaaaacccaa atttcactc cacaaagaaa acagctgcaa gccccaggg acttacctgg 780
ggctggcatg tgtgactgtc tcggatgaag tgactgaccc agtgcacact ggatcaaaat 840
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cccttgggtga attgtcacgt gagtggggcc agtaagagtg aagtctgtct cttgaatcca 1080
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gctgggcttc tytctctcat ttgttccttg tggaacaaat gggcaaaaaga agtgtgaaaa 1200
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ccgagcttcc ctccctgttt attgtgttca tgatcagtat gtgtttccat ataaaacttt 1440
tctcaacgga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 1484

```

<210> 1497

<211> 2192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2190)

<223> n equals a,t,g, or c

<400> 1497

```

gccccgatttc ctccgggcta caggcgacag agctgagcca agcgtttact gggcagctgt 60
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ccaggatctc tgggctgaaa tttgttcctg tctgccaaat cctgaacaag aagatggtgc 180
caacaatgca ttctcagact ctttgtgga ttcttgccct gaagggtgaag gccagaggga 240
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agtgtattta gcatctctag ccattttatt ttaaaaatat ttcttgactt cggatgtggc 360
ttgagctgta ggcgcggagg gccggagacg ctgcagaccc gcgaccgga gcagctcggg 420
ggcgggtgaat aatagctctt caagtctgca ataaaaaatg gcctccaaca aaactacatt 480
gcaaaaaatg ggaaaaaaac agaatggaaa gagtaaaaaa gttgaagagg cagagcctga 540
agaatttgtc gtggaaaaaa tactagatcg acgtgtagtg aatgggaaag tggaaatatt 600
cctgaagtgg aagggattta cagatgctga caatacttgg gaacctgaag aaaatttaga 660
ttgtccagaa ttgattgaag cgtttcttaa ctctcagaaa gctggcaaag aaaaagatgg 720
tacaaaaaga aaatctttat ctgacagtga atctgatgac agcaaatcaa agaagaaaag 780
agatgctgct gacaaaaccaa gaggatttgc cagaggtctt gatcctgaaa gaataattgg 840
tgccacagac agcagtggag aattgatgtt tctcatgaaa tggaaagatt cagatgaggc 900
agacttggtg ctggcgaaaag aggc aaatat gaagtgtcct caaattgtaa ttgcttttta 960
tgaagagaga ctaacttggc attcctgtcc agaagatgaa gctcaataat tgttcacatt 1020
gttcttttat atatatatat atatatatat aaaaattggg tcttagattt tgatttacta 1080
gtgtgacaaa ataactacat cctaatagaa atcaagtttg atatgtttgt tttgaaagta 1140

```

932

```

gcgttggaag agttgttggg ggttttttgc atccatagca ctggttactt tgaacaaata 1200
aataaaagct ttctgtagtt gcttccttta tcagaaaaga acatttgata ccatgggtata 1260
tcatttctct ttcattaaag aacagctttt ctaaagtgtg ggggaaatgt ccatagtcac 1320
tactcagtca aaacttgtgt tctcatgagc ctaaggacca ttctagattt attacgtgtt 1380
ttttgtgtgt gtgtgtgtgt gtgtgtgtgt atccataaaa tgcataatgta aatttttttt 1440
tgtttttaag cattcaccca aacaaaaaaaa tcacaggtaa acccatgttt ctgagatgcc 1500
attattccaa gcaaaataag agataatccc ttcaagttaa attgaaaatt ttcttgaaac 1560
catacatttc aagtgaata agtaattcta gataggacaa tttaaattgg ataattttta 1620
agtgtctata attgcagtgg ttattttgca aaattcctaa aaggaaaaat tttatcactg 1680
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agcaaaatgt tggaatccct gttgctacat tgactaaaag gtcataatga atggaatatg 1860
taagacttgg ctcatagaaa cctaatacaga tgggttagagg tgttggcagt ttaggacctg 1920
ctgtcataaa tgtgtgaaca accttttgta acctaaccta ttgacctgca tgttttttct 1980
ttacccaat tcattacatg gaggtcaat cttgagtttg ctttactggg tcagcaaaag 2040
ccaggaagaa caactttgta gtaatacaaa tgttatccaa ctgtatatg tttactttat 2100
tgtaataact ggtgaacagt ggttaataaa tagttttata ttcttttatg caaaaaaaaa 2160
aaaaaaaaaa cctnngggggg ggccccggan cc 2192

```

<210> 1498

<211> 685

<212> DNA

<213> Homo sapiens

<400> 1498

```

gggaaagctg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc cagcggtccg 60
gtaaaaagtg actgaggaca caagcagtgt tctgcgttcc ccgatgcccg gagtgggtgg 120
ggccgtctct gtcaagcctg gagacgcggt agcagaaggc caagaaattt gtgtgattga 180
agccatgaaa atgcagaata gtatgacagc tgggaaaact ggcacgggtg aatctgtgca 240
ctgtcaagct ggagacacag ttggagaagg ggaatctgtc gtggagctgg aatgaaggat 300
ttataacctt tcagtcacat cccaatttaa ttagccattt gcatgatgct ttcacacaca 360
attgattcaa gcattatata ggaacacccc tgtgcagcta cgtttacgct gtcattttat 420
ccacagagtc aagaccaata ttctgcaaaa aaatcaccaa tggaaatttt cattgatata 480
aatacttgta catatgattt gtacttctgc tgtgagattc cctagtgtca aaattaaatc 540
aataaaaact agcatttgct taaatattag tttgcccttt ctttgaatga agacaatgta 600
cacataggcg accaggtctg ccagtagact accagcattt ctttgtgatc cttttaagag 660
attgatataa atgtcagtca gttct 685

```

<210> 1499

<211> 1049

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1027)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1046)

933

<223> n equals a,t,g, or c

<400> 1499

```

gctgagggat ttcatcaaca ctagactggg cccataagaa acgyttaagg gagtactttg 60
gtcagaaaga aacagacatt aatgagcaac aaagaatcat ctaaaggtaa aaaactcact 120
gttaagagta agtacacaga aaaacccaaa gtgtgataac attgtaactg tgggtgtgtaa 180
gtagaaagaa taaatgataa accaatcaaa aatagtaact acaacttttc aagaccagtc 240
agaaaaataa gataaaatta gaaacaacaa aaagttaaaa agtgggggga tgaagttaag 300
atgtagagtt tttattagtt ttttgtttgt taatgcaaac agtgttacca gggttaaaata 360
atgggttaca aaatagtatt tgtaatcctt atggtaacct caaacctaaa aacatacact 420
ggatacataa aaaataaaaa gcaaaaacct aaatcatatc accagagcaa actaccttcc 480
ctaaaggaag acaggaagaa aagaaagaag aagaccmcaa amcaaccaga aaacaaataa 540
atwacaaggc aggagtaagt ctttacttat cgataataca ttgaatggma atatggacta 600
aactctccaa tcaaaagaca tagactggct gaatgaatgg agaaaacaag acccattgat 660
ctgtttgccta caagaaacac acttaaacta taaagacaca cataggctga aagtaaagag 720
ttggaaagag ttattccatg ccaatggaaa ccaggaaaaa gagaaggagt attgattttg 780
atacaaaaac tatgagacaa ataaagtcac tatacaatga waaaggggtt aatatggttt 840
ccatttgtgc cccacccaaa tttcgtgttc tattgtaatc ctcaatgttg gaggtggggc 900
ctgggtgggac gtgattggat catgggggtg gatctttcat gactaattca gcaccatctt 960
cttagtgctg ttctcatgat agtgagtcct ctgaatctgg ttgcctaaag tgtgtagccc 1020
tctccanacc acccgcttgc cttggnca 1049

```

<210> 1500

<211> 1018

<212> DNA

<213> Homo sapiens

<400> 1500

```

cgacagaagg gtacggctgc gagaagacga cagmaggggc tctctgccag cagccgtccg 60
gagccagcca acgagcggaa aatggcagac aatttttctgc tccatgatgc gttatctggg 120
tctggaaacc caaacctca aggatggcct ggcgcattgg ggaaccagcc tgctggggca 180
gggggctacc caggggcttc ctatcctggg gcctaccccg ggcaggcacc cccaggggct 240
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cctgcacctg gagtctaccc agggccaccc agcggccctg gggcctaccc atcttctgga 360
cagccaagtg ccmccggagc ctaccctgcc actggccctt atggcgcccc tgctgggcca 420
ctgattgtgc cttataacct gcctttgcct gggggagtgg tgctctgcat gctgataaca 480
attctgggca cgggtgaagcc caatgcaaac agaattgctt tagatttcca aagaggggaat 540
gatgttgctt tccactttta cccacgcttc aatgagaaca acaggagagt cattgtttgc 600
aatacaaaagc tggataataa ctggggaagg gaagaaagac agtcggtttt cccatttgaa 660
agtgggaaac cattcaaaat acaagtactg gttgaacctg accacttcaa ggttgacagt 720
aatgatgctc acttggtgca gtacaatcat cgggttaaaa aactcaatga aatcagcaaa 780
ctgggaattt ctggtgacat agacctcacc agtgcttcat ataccatgat ataacttgaa 840
aggggcagat taaaaaaaaa aaaagaatct aaaccttaca tgtgtaaagg tttcatgttc 900
actgtgagtg aaaattttta cattcatcaa tatccctctt gtaagtcac tacttaataa 960
atattacagt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactcga 1018

```

<210> 1501

<211> 2031

<212> DNA

<213> Homo sapiens

934

<400> 1501

```

ccccgcgctc cgccccacgcg tccgccccacg cgtccgggcgc cagcgggcctc gccgccccgctc 60
aagctgtcca catccctggc ctacgcccgc cacatcaccg tgacctgctt acgcccagat 120
tttcttcaat cacatctgaa taaatcactt gaagaaagct tatagcttca ttgcaccatg 180
tgtggcattt gggcgctgtt tggcagtgat gattgccttt ctgttcagtg tctgagtgtc 240
atgaagattg cacacagagg tccagatgca ttccgttttg agaatgtcaa tggatacacc 300
aactgctgct ttggatttca ccggttggcg gtagttgacc cgctgttttg aatgcagcca 360
attcgagtga agaaatatcc gtatttgtgg ctctgttaca atggtgaaat ctacaacccat 420
aagaagatgc aacagcattt tgaatttgaa taccagacca aagtggatgg tgagataatc 480
cttcattctt atgacaaagg aggaattgag caaacaattt gtatgttga tgggtgtgtt 540
gcatttgttt tactggatac tgccaataag aaagtgttcc tgggtagaga tacatattga 600
gtcagacctt tgtttaaagc aatgacagaa gatgtatttt tggctgtatg ttcagaagct 660
aaaggctctt ttacattgaa gcactccgcg actccctttt taaaagtggg gccttttctt 720
cctggacact atgaagtttt ggattttaaag ccaaattggc aagttgcatc cgtggaaaatg 780
gttaaatatc atcactgtcg ggatgaaccc ctgcacgcc tctatgacaa tgtggagaaa 840
ctctttccag gttttgagat agaaactgtg aagaacaacc tcaggatcct ttttaataat 900
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gactccagct tgggtgtctg cactctgttg aagcagctga aagaagccca agtacctat 1020
cctctccaga catttgcaat tggcatggaa gacagcccg atttactggc tgctagaaag 1080
gtggcagatc atattggaag tgaacattat gaagtccttt ttaactctga ggaaggcatt 1140
caggctctgg atgaagtcat attttcttg gaaacttatg acattacaac agttcgtgct 1200
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ttctctggag aaggatcaga tgaacttacg cagggttaca tatattttca caaggctcct 1320
tctcctgaaa aagccgagga ggagagttag aggcctctga gggaaactta tttgtttgat 1380
gttctccgcg cagatcgaa c tactgtctgc catggctctg aactgagagt cccatttcta 1440
gatcatcgat tttcttccca ttacttgtct ctgccaccag aaatgagaat tccaaagaat 1500
gggatagaaa aacatctcct gagagagacg tttgaggatt ccaatctgat acccaaagag 1560
attctctggc gaccaaaga agccttcagt gatggaataa cttcagttaa gaattcctgg 1620
tttaagattt tacaggaata cgttgaacat caggttgatg atgcaatgat ggcaaagca 1680
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taggtggtct ttatgctgta atgtgaaagc aaatatttct tcgtgttggg tggggactgt 1920
gggtagatag gggaacaatg agagtcaact caggctaact tgggtgtgaa aaaaataaaa 1980
gtcctaatac taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 2031

```

<210> 1502

<211> 1463

<212> DNA

<213> Homo sapiens

<400> 1502

```

ggcgcggaat gttggcctcg cccctgccga cgtcgcaggc tggagctcac ctgggagact 60
ccaagtggaa gccgagctcg gttctgcctc tccaggcaac gcgggaggcc cagcgggaag 120
gcaggaggcg gcggcgagg aggagctcta ctgagccgca actgtggcga cagcaaccgg 180
agtcgcagcc gccgccacct gcacctggcg cctagcccac gtccagcgcc tgccggcgcc 240
ccgcttcccg ccacctgcc ctgcccaccc gccaggtaact accattaaag ataccttctt 300
ctcagcaaat ctatgataaa aaatataagt aacagaagaa gaaataactg ttatttgtca 360
agtgacaagc ttttaatgtc agaattggct acctaaagcg actagtaaaa ttacacatta 420
aaagacatta ccataaaaag ttctggaagc ttggtgcagt aatttttttc ttataatag 480
ttttggtttt aatgcaaaga gaagtaagtg ktcaatatcc caaagaggaa tcaaggatgg 540

```


935

```

aaaggamcat gaaaaacaaa aacaagatgt tggatttaat gctagaagct gtaaacaata 600
ttaaggatgc catgccaaaa atgcaaatac gagcacctgt caggcaaac attgatgctg 660
gtgagagacc ttgtttgcaa ggatattata cagcagcaga attgaagcct gtccttgacc 720
gtccacctca ggattcaaat gcacctgggtg cttctggtaa agcattcaag acaaccaatt 780
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tattgaacaa aaattttaagc gctgccctcc cctgccacc accagtgtca taatagtttt 960
tcataatgaa gcgtgggtcca cgttgcttag aactgtccac agtgtgctct attcttcacc 1020
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tgataaacta gatgaatatg taaaacaatt ttctatagta aaaatagtca gacaaagaga 1140
aagaaaaggt ctgatcactg ctcrgttgct aggagcaaca gtcgcaacag ctgaaacgct 1200
cacatTTTTA gatgctcact gtgagtgttt ctatggttgg ctagaacctc tgttggccag 1260
aatagctgag aactacacgg ctgtcgtaag tccagatatt gcatccatag atctgaacac 1320
gtttgaattc aacaaacctt ctcccttatgg gaagtaacca taaccgtggg aaattttgac 1380
tgggagtctt tcattttggst ggggagtcgc ttccygatca tgaggaggca aggaggggaag 1440
rtgaacctac ccattttaaac acc                                     1463

```

<210> 1503

<211> 570

<212> DNA

<213> Homo sapiens

<400> 1503

```

tgcaaaaatt acagctgggtg cctgtaatcc ccgctactcg ggaggctgac acaggagaat 60
tgcttgaacc tgggagggtgg aggtttcagt gagctgagat cgtggcattg cactctagcc 120
tgggcaaccm agagtgaaac tgtctcaaaa aacaactttt atcaatgtct gcaaaaagaa 180
agtcttcttg gatttataga tcaatttagg gagaaatgac attttaacaa ttctgagttt 240
tccaattgtt gaacatgggtg tactgcccc tttatttaga tctgttaatt tctctcagtt 300
tgcagctctc acatTTTgtt aaattcatgt atttaatat tctgcatgct attgcaagtg 360
gtaagggttt caaaaagctg ttttctagtt attgctagta tatagaaatg cattagactt 420
gtacattgat cttgtatcaa gcaacttaga tcagttaact tattctagta gcttttttct 480
agattcttta gcatTTTcta tgtagataat catgtcatct gtgaataaag tattttactt 540
ttccaattta aaaaaaaaaa aaaaaaactc                                     570

```

<210> 1504

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

936

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 1504

```

cgcgctcgact tttttttttt tntgcttttg aaaatcaact atcattttta ttacaatctt 60
aaacactttt gttaagggga atccaatttt cctcttccaa gggcttcca aacatggaat 120
atgtaggttt tcatcataat ctcaatgttg tttatccaaa tgtatcacgt tatataaata 180
tgtagagggt tccagatgtc aagggcaggg tattaggttc aagtgtggct ggctctaacc 240
tctccactga actcctagag tgagatttaa gttttattta atctaacttt actaattcaa 300
cttagtcgtg taagaaggat atgaagaata tgaattattg tacttcacac tgctactttc 360
atgtacagta tagtagawta atactgacma cyatagacma gragttaaaa ttkgtcyerg 420
gaaaatycty cargatttta amcattgrca ttgccncgga gcggagaatt cagggcccg 480
aaagnggggc nacttagg 498

```

<210> 1505

<211> 2061

<212> DNA

<213> Homo sapiens

<400> 1505

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gccggcaccg cagcagcccg aggagggcgc gggcrcgrgg cccgggtgcgt gcagcctgca 60
cctcagcgag cgcgccgact ggagtgactc gcagcgcgag ctggacgccg tcgaggtctt 120
cttctcgcgc acggcccggg acaaccggct cggtgcgtg ttcgtgcgt gcgcgccctc 180
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937

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<210> 1506

<211> 2396

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

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<400> 1506

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938

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<211> 1153

<212> DNA

<213> Homo sapiens

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<211> 652

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